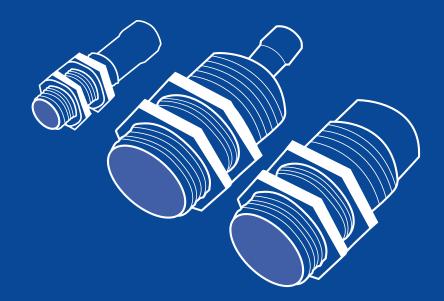
CATALOG

Inductive and Capacitive Sensors





INDUCTIVE SENSORS

Inductive proximity sensors generate a magnetic field from their detection faces. Whenever a detectable object moves into the sensor's field of detection, Eddy currents build up in the target and dampen the sensor's magnetic field. This effect triggers the sensor's output. Since a current in the target is needed for detection, inductive proximity sensors are uniquely suited for detection of all types of metals.

ADVANTAGES

- -Not affected by humidity and dust
- -No moving parts, no mechanical wear
- -Independent of the color of the object to detect
- -No dead zone

DISADVANTAGES

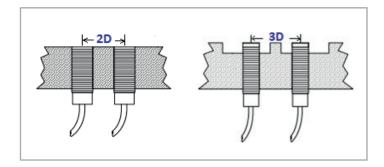
- -only detect metallic objects
- -low operating distance
- -sensitive to electromagnetic interference
- (such as electric welding, induction ovens)

SHIELDED MODELS - FLUSH MOUNTING

Shielded models can be installed with their sensing faces flush to the metal. The distance from opposing metal surfaces must be \geq 3sn and the distance between two proximity switches (side-byside) \geq 2D.

UNSHIELDED MODELS - NON-FLUSH MOUNTING

Unshielded models can be identified by their 'caps", since they have no metal housing surrounding the area of the sensing face. The sensing face must extend ≥ 2 sn from the metallic installation medium. The distance from opposing metal surfaces must be ≥ 3 sn and the distance between two adjacent proximity switches ≥ 3 D. The metal body leaves uncovered part of the sensing area resulting in an increased sensing distance.



Main tubular models are available in both nickel plated brass and stainless steel housing, with the active sensing face in LCP plastic.

METAL FACE VERSION:

Are available stainless steel versions (M12,M18). Are used in especially harsh environments and applications which are too extreme for standard sensors. They resist to abrasive media, aggressive cleaners and solvents with their rugged sensing face. IP67 protection.

WELD FIELD IMMUNE VERSION:

These special field immune models are ideal for welding environments and other applications where large magnetic fields are present. They are rated for reliable operation near the current line carrying 20,000 amps.

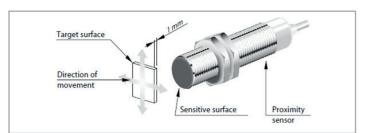
NAMUR VERSION:

Are available 2 wires versions (M5, M6,5, M8, M12, M18, M30). They can be used in conjunction with suitable switching amplifiers. The switch amplifier must be installed outside the explosive area. Almost all versions have IP67 mechanical protection.



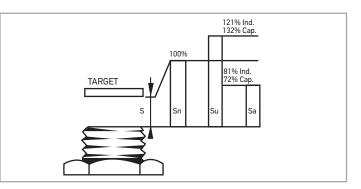
NOMINAL SWITCHING DISTANCE (SN) ACCORDING TO EN 60947-5-2

When an inductive proximity sensor is rated for sensing distance, it refers to the sensor's ability to detect the "standard detectable object" at its specified sensing distance. The "standard detectable object" is a 1mm thick square piece of ferrous iron that is in height and width the size of the proximity sensor's detection face's diameter.



When the object to be detected is a different metal material, multiply the value of the rated operating distance for a reduction factor. The table beside shows the average reduction factors of materials according to the standards.

REDUCTION FACTOR	
Fe37	1 x Sn*
Stainless Steel AISI316L (X2CrNiMo17-12-2, UNI EN 10088-3)	0,9 x Sn
Brass-Bronze (CuZn33, UNI EN 12163:1999)	0,5 x Sn
Aluminum (25°C) (EN AW-1060, UNI EN 573-3:2006)	0,4 x Sn
Copper (Cu-DHP, UNI EN 1652:1999)	0,3 x Sn



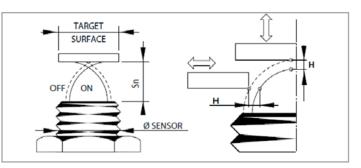
Sn: Nominal operating distance. It does not take into account either manufacturing tolerances or variations due to external conditions such as voltage and temperature

Su: Usable operating distance, measured over the whole temperature and supply voltage range specified for the sensor.

Sa: Assured operating distance over the whole temperature and supply voltage range specified for the sensor.

HYSTERESIS (H):

distance between the point of switching on and the point of switching off of the trigger object. The value is a percentage of the nominal switching distance Sn.



AC/DC VERSION:

Are available 2/3-wires versions (M12, M18, M30), that operate in alternating current with voltage drop of 5 V for currents of the order of 100mA. To be able to provide a proper potential drop at the load, it is recommended to power the sensors with at least a supply voltage equal to the Voltage drop indicated (5V).

The Stainless Steel series is rated IP69K.



M12/18/30 FLUSH Vdc models are ATEX certified II 3G EX nA II T6 II 3D EX tD A22 IP67 T85°C

Operating distance

MODEL	M4	M5	M6,5	M8	M12	M18	M30	SQUARE
DIAMETER (mm)	4	5	6,5	8	12	18	30	8X8; 40X40
OPERATING DISTANCE (mm)	0,8	0,81,5	13	1,53	28	514	1020	1,530

Housing

The following tables are showing the approximate housing length (mm) for the tubular inductive sensors and the absolute maximum installation limit of the mounting torque.

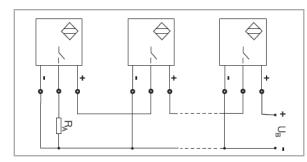
MODELS	STANDARD MOI	DEL LENGTH (mm)	SHORT MODEL LENGTH (m	
MODELS	connector			
M4		25		
M5	40	2025		
M6,5	5363	4655	5054	4044
M8	5273	4455	4857	4044
M12	6872	5864	4854	4248
M18	7382	7078	5665	4756
M30	7485	7082	5668	4956

INSTALLATION TIGHTENING TORQUE						
Mounting	Flush, No Flush Mountable	Diameter	A (11 Mm)	В		
Housing Material	Stainless Steel, Nickel Brass	4 Mm	1,5 [Nm]	1,5 [Nm]		
		5 Mm	1,5 [Nm]	1,5 [Nm]		
		8 Mm	2 [Nm]	4 [Nm]		
Installation	0	12 Mm	6 [Nm]	10 [Nm]		
		18 Mm	20 [Nm]	30 [Nm]		
	δ───₽ ■−−₽	30 Mm	40 [Nm]	60 [Nm]		

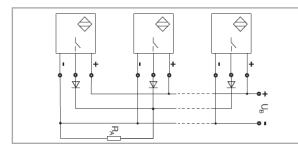
Wires

TYPE	DESCRIPTION
	Work with sinking or sourcing devices
2-3 WIRES	Vdc, Vac and NAMUR versions
	Higher leakage current
	Must select PNP or NPN, NC or NO version
3 WIRES	10-30 Vdc version
	Low leakage current
	Programmable output
4 WIRES	PNP/NPN and NC/NO in one device

The number of inductive proximity sensors that can be connected in series or parallel is limited.



Parallel connection: the leakage current of each single sensor, when added to the other, may accumulate and drive the load even in the absence of operated switches.



This problem is more relevant in versions AC 2-wire, because of the high voltages and currents supplied to the sensor. For this type of connection you should use a 3-wire sensors working in DC.

Electrical Parameters

- NOMINAL VOLTAGE Is the permissible voltage range in which certain safe operation of the switch is guaranteed.
- **RESIDUAL RIPPLE** Is the maximum admissible ripple of the DC supply voltage shown as percentage to its medium value.
- MAX. OUTPUT CURRENT It shows maximum output current a sensor can cope with when working steadly.
- MIN. OUTPUT CURRENT Is the smallest load current required for function of the switch when ON.
- RESIDUAL CURRENT
 - Is the current flowing through the load when a proximity switch is not conducting (open).
- VOLTAGE DROP

Is the voltage measured across the load of a closed (conducting) sensor at load current.

• START UP DELAY

Is the time from when the supply voltage is applied, and the proximity switch assumes the ready state. This time may not be longer than 300 ms. During this time there must be no fault signal longer than 2 ms.

- SWITCHING FREQUENCY Refers to the maximum number of switching operations per second.
- SHORT CIRCUIT PROTECTION Is 100 A, i. e., per EN 60947-5-2 the power supply during testing in short circuit mode must be able to provide at least 100 A for a short duration. This current is prescribed in the standard in order to test.
- PROTECTION AGAINST INVERSION
 OF POLARITY

Available in DC supplied type, it prevents the sensor from being damage when supply cables are incorrectly connected.

• INDUCTIVE LOAD PROTECTION It protects sensor output in presence of high inductive loads. This protection is performed by a diode or zenner diode.

INDEX

BASIC

- Nickel-plated Brass housing
- LCP active face
- Standard length
- Short length
- Normal and Double range Operating distance
- Operating distance: 1,5 ... 20 mm
- M6,5, M8, M12, M18, M30
- cable, M8 or M12 connector
- 2, 3 or 4 wires
- PNP, NPN, PNP/NPN, NO, NC, NO/NC
- IP67 protection

INDUCTIVE AC

- Nickel-plated Brass housing
- PA 16 active face
- Standard length
- Operating distance 2 ... 10 mm
- M12, M18, M30
- cable or M12 connector
- 20+250 Vac (50,60 Hz)
- 2 or 3 wires
- NO .
- IP67 protection

08

STAINLESS STEEL

- Stainless Steel housing
- M4, M5 POM active face M6,5, M8, M12, M18, M30 LCP active face .
- Standard length .
- Short length
- Normal and Double range Operating distance
- Operating distance 0.8 ... 20 mm
- M4, M5, M6,5, M8, M12, M18, M30
- cable, M8 or M12 connector
- 3 wires

NAMUR

- PNP, NPN, NO, NC
- IP69K protection
- 54

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- Nickel-plated Brass housing
- LCP active face
- Short length
- Operating distance 0.8 ... 15 mm
- M12, M18
- cable, M8 or M12 connector
- 2 wires
- PNP, NO
- IP67 protection

M4

- Flush
- Stainless steel
- Op.Dist.: 0,8 Mm
- Diameter: 4 mm
- 3 Wires - Pnp or npn, n.O.
- Cable

M5

- Flush
- Stainless steel - Op.Dist.: 0.8 Mm
- Double range vers.:
- 1,5 Mm
- Diameter: 5 mm
- 3 Wires - Namur vers.
- Pnp or npn, n.O.,
- N.C.
- M8 connector or cable

M6,5

brass

- 3 Wires

- Flush, non-flush

- Op.Dist.: 1,5...2 Mm

- Diameter: 6,5 mm

- Namur (2wires) vers.

- Pnp or npn, n.O., N.C.

- M8 connector or cable

- Stainless steel, nickel plated-

- Double range vers.: 2...3 Mm

- Standard or short housing

- **M8**
- Flush, non-flush
- brass
- Op.Dist.: 1,5...2 Mm
- Double range vers.: 2...3 Mm
- 3 Wires
- Namur (2wires) vers.
- Pnp or npn, n.O., N.C.
- M8, m12 connector or cable

M12

- Flush, non-flush
- Stainless steel, nickel platedbrass - Op.Dist.: 2...4 Mm
- Double range vers.: 4...8 Mm - Diameter: 12 mm
- Standard or short housing
- 2, 3, 4 (Programmable npn/ pnp output) wires
- Vac/vdc vers.
- Metal face vers.
- Namur vers
- Field immune vers.

- - Pnp or npn, n.O., N.C.
 - M12 connector or cable

- Stainless steel, nickel plated-
- Diameter: 8 mm
- Standard or short housing

METAL FACE

- Stainless Steel housing
- Stainless Steel AISI 303 active face
- Stainless Steel active face
- Standard length
- 2 ... 8 mm
- M12, M18
- M12 connector
- 3 wires
- PNP, NO
- IP67 protection

SQUARE

- PBT (resin) or Nickel-plated Brass housing
- Operating distance 1.5 ... 15 mm
- 40x40 mm or 8x8 mm dimension
- cable, M8 connector or Terminal Block
- 2 or 3 wires
- PNP, PNP/NPN, NO, NC, NO/NC
- IP67

WELD FIELD IMMUNE

- Stainless Steel housing н.
- PTFE active face .
- Standard length .
- Operating distance 2 ... 8 mm .
- M12, M18

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70

- M12 connector
- 3 wires
- PNP, NO
- IP67 protection

CAPACITIVE

76

50

- Nickel plated brass
- M18, M30
- Basic line NO-NC
- Capacitive A.C. (plastic housing)
- Multivoltage (SPDT relay)
- Operating distance: 5...25 mm
- Cable or M8 connector
- 2,4,6 wires
- PNP or NPN, N.O. and N.C. outputs, SPDT relay
- Delay ON or delay OFF model
- IP67 protection

CABLES, CONNECTORS & ACCESSORIES

84

M18

- Flush, non-flush
- Stainless steel, nickel plated-brass
- Op.Dist.: 5...8 Mm
- Double range vers.: 8...14 Mm
- Diameter: 18 mm
- Standard or short housing - 2, 3 4 (Programmable npn/pnp
- output) wires
- Vac/vdc vers.
- Metal face vers. - Field immune vers.
- Namur vers.
- Pnp or npn, n.O., N.C. - M12 connector or cable
- Capacitive d.C., N.O.-N.C. Outputs
- Capacitive a.C., 2 Wires, n.O.

M30

- Flush, non-flush
- Stainless steel, nickel plated-brass
- Op.Dist.: 10...15 Mm
- Double range vers.: 15...20 Mm
- Diameter: 30 mm
- Standard or short housing
- 2, 3, 4 (Programmable npn/pnp
- output) wires
- Vac/vdc vers.
- Namur vers.
- Pnp or npn, n.O., N.C. - M12 connector or cable
- Capacitive d.C., N.O.-N.C. Outputs
- Capacitive a.C., 2 Wires, n.O.
- Capacitive multivoltage with timer . relay output

SQUARE 40X40

- Flush, non-flush
- Standard or short housing - Plastic (pbt resin)
- Op.Dist.: 15...30 Mm; 7-20 mm
- (analog vers.)
- Diameter: 40 mm
- 2. 3 Wires - Vac/vdc vers
- Analog output 4-20ma vers.
- Pnp or npn, n.O., N.C.
- Terminal block

SQUARE 8X8

- Flush

- Diameter: 8 mm
- 3 Wires, pnp, n.O.
- M8 connector or cable
- Nickel-plated brass - Op.Dist.: 1,5 Mm

Nickel-plated Brass housing LCP active face Standard length Short length Normal and double range operating distance Operating distance: 1,5 ... 20 mm M6,5, M8, M12, M18, M30 cable, M8 or M12 connector 2, 3 or 4 wires PNP, NPN, PNP/NPN, NO, NC, NO/NC IP67 protection

REDUCTION FACTOR

	ALUMINUM (25°C)	STAINLESS STEEL AISI316L	COPPER	BRASS
FLUSH	0,30,5	0,70,9	0,20,5	0,40,6
NON-FLUSH	0,40,6	0,71,05	0,40,5	0,50,7

M12/18/30 models are Diversey and ECOLAB tested



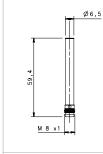
BASIC

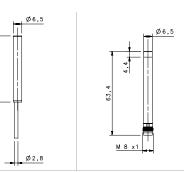


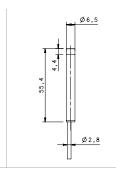


BASIC M6.5





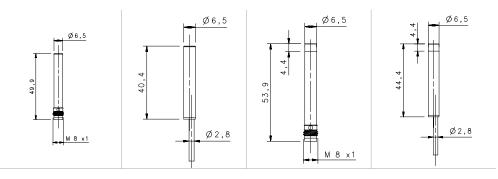




				STANDARD				
				- FL	USH	NON I	FLUSH	
				M8 conn	cable	M8 conn	cable	
NOMINAL SWITC	HING DISTAN	ICE		1,5 mm	1,5 mm	2 mm	2 mm	
10.001/1	PNP/NPN NO-NC	(
10-30 Vdc		4 wires	order No.					
10-30 Vdc	PNP	2		IS-65-A1-S1	IS-65-A1-03	IS-65-C1-S1	IS-65-C1-03	
10-30 Vac	NO	3 wires	order No.	95B066050	95B064730	95B066210	95B064890	
10-30 Vdc	PNP	3 wires		IS-65-A2-S1	IS-65-A2-03	IS-65-C2-S1	IS-65-C2-03	
10-30 Vac	NC	3 wires	order No.	95B066090	95B064770	95B066250	95B066300	
10-30 Vdc	NPN	2		IS-65-A3-S1	IS-65-A3-03	IS-65-C3-S1	IS-65-C3-03	
10-30 Vac	NO	3 wires	order No.	95B064970	95B064650	95B066130	95B064810	
10-30 Vdc	NPN NC	3 wires		IS-65-A4-S1	IS-65-A4-03	IS-65-C4-S1	IS-65-C4-03	
10-30 Vac			order No.	95B066010	95B064690	95B066170	95B064850	
10.201/4	PNP	1						
10-30 Vdc	NO-NC	4 wires	order No.					
10-30 Vdc	NPN NO-NC	1						
10-30 Vac		4 wires	order No.					
10.201/4		2 wires						
10-30 Vdc	NO-NC	2 wires	order No.					
20-250 Vac/Vdc	NO	2 wires						
20-230 Vac/ Vuc	NU	Z WIIES	order No.					
20-250 Vac/Vdc	NC	2 wires						
20-250 Vac/Vuc	INC	Z WILES	order No.					
20-250 Vac	NO	2/3 wires						
20-230 Vac	INU	Z/ J WII ES	order No.					
10-30 Vdc	Analog 0-20	3 wires						
10-30 VUC	mA	5 wires	order No.					
	NAMUD	2 wires						
NAMUR amplifier	NAMUR	z wires	order No.					

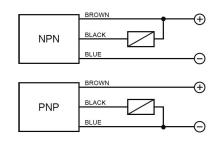
51,4

Nominal Voltage	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)
Residual Ripple	< 10%	< 10%	< 10%	< 10%
lysteresis	< 10%	< 10%	< 10%	< 10%
Max. Output Current	200 mm	200 mA	200 mm	200 mA
Ain. Output Current				
Residual Current	< 1,6 mA	< 1,6 mA	< 1,6 mA	< 1,6 mA
/oltage Drop	< 1,2 V (l=100 mA)	< 1,2 V (l=100 mA)	< 1,2 V (I=100 mA)	< 1,2 V (I=100 mA)
Operation Led	Yellow	Yellow	Yellow	Yellow
Switching Frequency	1000 Hz	1000 Hz	1000 Hz	1000 Hz
Start Up Delay	< 50 ms	< 50 ms	< 50 ms	< 50 ms
Repeatability	< 3%	< 3%	< 3%	< 3%
Short Circuit Protection	Present (self-resetting)	Present (self-resetting)	Present (self-resetting)	Present (self-resetting
Electric Protection	Against polarity reversal inductive loads	Against polarity reversal inductive loads	Against polarity reversal inductive loads	Against polarity reversa inductive loads
emperature Limit	(-25 +70 °C)	(-25 +70 °C)	(-25 +70 °C)	(-25 +70 °C)
Protection Degree	IP67	IP67	IP67	IP67
Cable Length		2 m		2 m
Cable Section		3x 0,14 mm ²		3x 0,14 mm ²
lousing Material	Nickel-plated brass	Nickel-plated brass	Nickel-plated brass	Nickel-plated brass
Active Face	LCP	LCP	LCP	LCP
ïghtening torque				
Veight – Cable Output		80 g		80 g
Weight - Connector Output	40 g		40 g	



		ORT	
	JSH		LUSH
M8 conn	cable	M8 conn	cable
1,5 mm	1,5 mm	2 mm	2 mm
IS-65-B1-S1	IS-65-B1-03	IS-65-D1-S1	IS-65-D1-03
95B066070	95B064750	95B066230	95B064910
IS-65-B2-S1	IS-65-B2-03	IS-65-D2-S1	IS-65-D2-03
95B066110	95B064790	95B066270	95B064950
IS-65-B3-S1	IS-65-B3-03	IS-65-D3-S1	IS-65-D3-03
95B064990	95B064670	95B066150	95B064830
IS-65-B4-S1	IS-65-B4-03	IS-65-D4-S1	IS-65-D4-03
95B066030	95B064710	95B066190	95B066190
	1		
10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)
< 10%	< 10%	< 10%	< 10%
< 10%	< 10%	< 10%	< 10%
200 mA	200 mA	200 mA	200 mA
< 10 mA	< 10 mA	< 10 mA	< 10 mA
< 1,2 V (I=100mA)	< 1,2 V (I=100mA)	< 1,2 V (I=100mA)	< 1,2 V (I=100mA)
Yellow	Yellow	Yellow	Yellow
1000 Hz	1000 Hz	1000 Hz	1000 Hz
< 50 ms	< 50 ms	< 50 ms	< 50 ms
< 3%	< 3%	< 3%	< 3%
Present (self-resetting)	Present (self-resetting)	Present (self-resetting)	Present (self-resetting)
Against polarity reversal inductive loads	Against polarity reversal inductive loads	Against polarity reversal inductive loads	Against polarity reversa inductive loads
(-25 +70 °C)	(-25 +70 °C)	(-25 +70 °C)	(-25 +70 °C)
IP67	IP67	IP67	IP67
	2 m		2 m
	3 x 0,14 mm ²		3 x 0,14 mm ²
Nickel-plated brass	Nickel-plated brass	Nickel-plated brass	Nickel-plated brass
LCP	LCP	LCP	LCP
	LUP	LUP	LUP
	80 g		80 g





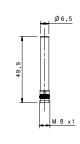
M8 3 pole

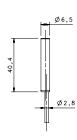


CONT	ACTS CON	FIGURAT	ION
	Cor	ntacts num	bers
Available	1 BROWN	3 BLUE	4 BLACK
NPN/PNP	+	_	NO/NC

BASIC M6.5







				SHORT X2			
				M8 conn	cable		
NOMINAL SWITC	HING DISTAN	ICE		2 mm	2 mm		
10.001/1	PNP/NPN	, .					
10-30 Vdc	NO-NC	4 wires	order No.				
10-30 Vdc	PNP	3 wires		IS-65-G1-S1	IS-65-G1-03		
10-30 Vac	NO	3 wires	order No.	95B066060	95B064740		
10-30 Vdc	PNP	3 wires		IS-65-G2-S1	IS-65-G2-03		
10-30 vuc	NC	5 WILES	order No.	95B066100	95B064780		
10-30 Vdc	NPN NO	3 wires		IS-65-G3-S1	IS-65-G3-03		
10-50 vuc			order No.	95B064980	95B064660		
10-30 Vdc	NPN NC	3 wires		IS-65-G4-S1	IS-65-G4-03		
10 30 vuc			order No.	95B066020	95B064700		
10-30 Vdc	PNP	4 wires					
10 00 140	NO-NC	4 WIICO	order No.				
10-30 Vdc	NPN	4 wires					
10 00 140	NO-NC		order No.				
10-30 Vdc	NO-NC	2 wires					
10 00 140		2 111100	order No.				
20-250 Vac/Vdc	NO	2 wires					
20 200 100, 100		2 111100	order No.				
20-250 Vac/Vdc	NC	2 wires					
			order No.				
20-250 Vac	NO	2/3 wires					
			order No.				
10-30 Vdc	Analog 0-20	3 wires					
	mA		order No.				
NAMUR amplifier	NAMUR	2 wires					
Amon ampuner	HARION	2 11105	order No.				

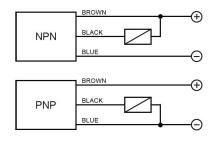
Nominal Voltage	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)
Residual Ripple	< 10%	< 10%
Hysteresis	< 10%	< 10%
Max. Output Current	200 mA	200 mA
Min. Output Current		
Residual Current	< 10 mA	< 10 mA
Voltage Drop	< 1,2 V (I=100mA)	< 1,2 V (I=100mA)
Operation Led	Yellow	Yellow
Switching Frequency	500 Hz	500 Hz
Start Up Delay	< 75 ms	< 75 ms
Repeatability	< 3%	< 3%
Short Circuit Protection	Present (self-resetting)	Present (self-resetting)
Electric Protection	Against polarity reversal inductive loads	Against polarity reversal inductive loads
Temperature Limit	(-25 +70 °C)	(-25 +70 °C)
Protection Degree	IP67	IP67
Cable Length		2 m
Cable Section		3 x 0,14 mm ²
Housing Material	Nickel-plated brass	Nickel-plated brass
Active face	LCP	LCP
Tightening torque		
Weight - Cable Output		80 g
Weight - Connector Output	40 g	



SHORT X 2					
	NON FLUSH				
M8 conn	cable				
3 mm	3 mm				
IS-65-H1-S1	IS-65-H1-03				
95B066220	95B064900				
IS-65-H2-S1	IS-65-H2-03				
95B066260	95B064940				
IS-65-H3-S1	IS-65-H3-03				
95B066140	95B064820				
IS-65-H4-S1	IS-65-H4-03				
95B066180	95B064860				
	·				
10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)				
< 10%	< 10%				
< 10%	< 10%				
200 mA	200 mA				
< 10 mA	< 10 mA				
< 1,2 V (I=100mA)	< 1,2 V (I=100mA)				
Yellow	Yellow				
500 Hz	500 Hz				
< 75 ms	< 75 ms				
< 3%	< 3%				
Present (self-resetting)	Present (self-resetting)				
Against polarity reversal inductive loads	Against polarity reversal inductive loads				
(-25 +70 °C)	(-25 +70 °C)				
IP67	IP67				
	2 m				
	3 x 0,14 mm ²				
Nickel-plated brass	Nickel-plated brass				
LCP	LCP				

----80 g

3 wires PNP or NPN



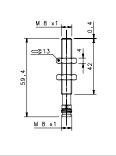
M8 3 pole

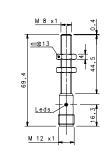


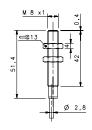
CONT	ACTS CON	FIGURAT	ION	
	Contacts numbers			
Available	1 BROWN	3 BLUE	4 BLACK	
NPN/PNP	+	-	NO/NC	

40 g



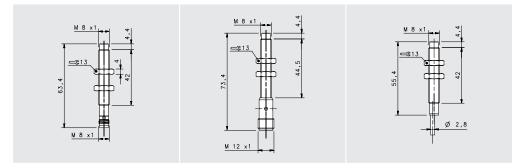






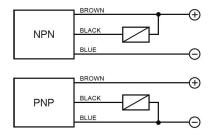
				STANDARD				
				FLUSH				
				M8 conn	M12 conn	cable		
IOMINAL SWITC	MINAL SWITCHING DISTANCE			1,5 mm	1,5 mm	1,5 mm		
10-30 Vdc	PNP/NPN	4 wires						
10-30 vuc	NO-NC	4 WILES	order No.					
0-30 Vdc	PNP	3 wires		IS-08-A1-S1	IS-08-A1-S2	IS-08-A1-03		
U-30 VUC	NO	5 WILES	order No.	95B061141	95B061131	95B061121		
0-30 Vdc	PNP	3 wires		IS-08-A2-S1	IS-08-A2-S2	IS-08-A2-03		
U-30 Vac	NC	3 wires	order No.	95B061171	95B061161	95B061151		
0.201/1	NPN			IS-08-A3-S1	IS-08-A3-S2	IS-08-A3-03		
10-30 Vdc	NO		order No.	95B061081	95B061071	95B061061		
0-30 Vdc	/dc NPN 3 wires	2		IS-08-A4-S1	IS-08-A4-S2	IS-08-A4-03		
U-3U Vac		3 wires	order No.	95B061111	95B061101	95B061091		
0.001/1	PNP							
0-30 Vdc	NO-NC		order No.					
0.001/1	NPN							
0-30 Vdc	NO-NC		order No.					
0.001/1		0						
0-30 Vdc	NO-NC	2 wires	order No.					
0.050.1/ 0/-1-	NO	0						
0-250 Vac/Vdc	NO	2 wires	order No.					
0-250 Vac/Vdc	N MI NO	2						
0-250 Vac/Vac	NC	2 wires	order No.					
0-250 Vac	NO	2/3 wires						
U-250 Vac	NU	Z/3 WIRES	order No.					
0.001/1-	Analog 0-20	2						
0-30 Vdc	mA	3 wires	order No.					
	NAMUD	0						
NAMUR amplifier	NAMUR	2 wires	order No.					

Nominal Voltage	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)
Residual Ripple	< 10%	< 10%	< 10%
Hysteresis	< 10%	< 10%	< 10%
Max. Output Current	200mA	200mA	200mA
Min. Output Current			
Residual Current	< 10 mA	< 10 mA	< 10 mA
Voltage Drop	< 1,2 V (I=100mA)	< 1,2 V (I=100mA)	< 1,2 V (I=100mA)
Operation Led	Yellow	Yellow	Yellow
Switching Frequency	1000 Hz	1000 Hz	1000 Hz
Start Up Delay	< 50 ms	< 50 ms	< 50 ms
Repeatability	< 3%	< 3%	< 3%
Short Circuit Protection	Present (self-resetting)	Present (self-resetting)	Present (self-resetting)
Electric Protection	Against polarity reversal inductive loads	Against polarity reversal inductive loads	Against polarity reversal inductive loads
Temperature Limit	(-25 +70 °C)	(-25 +70 °C)	(-25 +70 °C)
Protection Degree	IP67	IP67	IP67
Cable Length			2 m
Cable Section			3x 0,14 mm ²
Housing Material	Nickel-plated brass	Nickel-plated brass	Nickel-plated brass
Active face	LCP	LCP	LCP
Tightening torque	* see page 5 of the Inductive Sensors Catalog	* see page 5 of the Inductive Sensors Catalog	* see page 5 of the Inductive Sensors Catalo
Weight - Cable Output		-	80 g
Weight - Connector Output	35g	55g	



	STANDARD	
	NON FLUSH	
M8 conn	M12 conn	cable
2 mm	2 mm	2 mm
IS-08-C1-S1	IS-08-C1-S2	IS-08-C1-03
95B061541	95B061531	95B061521
IS-08-C2-S1	IS-08-C2-S2	IS-08-C2-03
95B061571	95B061561	95B061551
IS-08-C3-S1	IS-08-C3-S2	IS-08-C3-03
95B061481	95B061471	95B066410
IS-08-C4-S1	IS-08-C4-S2	IS-08-C4-03
95B061511	95B061501	958066450
	1	1
10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)
< 10%	< 10%	< 10%
< 10%	< 10%	< 10%
200mA	200mA	200mA
< 10 mA	< 10 mA	< 10 mA
< 1,2 V (I=100mA)	< 1,2 V (I=100mA)	< 1,2 V (I=100mA)
Yellow	Yellow	Yellow
1000 Hz	1000 Hz	1000 Hz
< 50 ms	< 50 ms	< 50 ms
< 3%	< 3%	< 3%
Present (self-resetting)	Present (self-resetting)	Present (self-resetting)
Against polarity reversal	Against polarity reversal	Against polarity reversal
inductive loads	inductive loads	inductive loads
(-25 +70 °C)	(-25 +70 °C)	(-25 +70 °C)
IP67	IP67	IP67
		2 m
		3x 0,14 mm ²
Nickel-plated brass	Nickel-plated brass	Nickel-plated brass
LCP	LCP	LCP
see page 5 of the Inductive Sensors Catalog	* see page 5 of the Inductive Sensors Catalog	* see page 5 of the Inductive Sensors Catalo
		80 g
35g	55g	

3 wires PNP or NPN



M12 3 pole



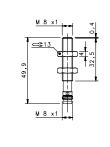
C	ONTACTS	CONFIGU	RATION	
Auglishis		Contacts	numbers	
Available	1	2	3	4
(NO or NC)	+		-	NO/NC

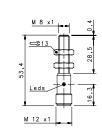
M8 3 pole

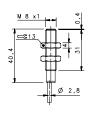


CONT	ACTS CON	FIGURAI	
	Contacts numbers		
Available	1 BROWN	3 BLUE	4 BLACK
NPN/PNP	+	_	NO/NC



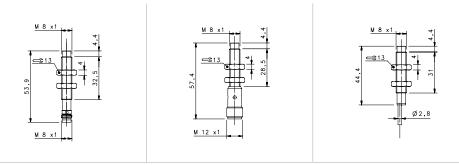






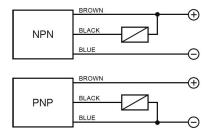
					SHORT		
				FLUSH			
				M8 conn	M12 conn	cable	
NOMINAL SWITC	HING DISTAN	ICE		1,5 mm	1,5 mm	1,5 mm	
10-30 Vdc	PNP/NPN (
10-30 vuc	NO-NC	4 wires	order No.				
10-30 Vdc	PNP	3 wires		IS-08-B1-S1	IS-08-B1-S2	IS-08-B1-03	
10-50 Vac	NO	5 WILES	order No.	95B066860	95B066590	95B061921	
10-30 Vdc	PNP	3 wires		IS-08-B2-S1	IS-08-B2-S2	IS-08-B2-03	
10-30 Vuc	NC	5 WILES	order No.	95B066890	95B066620	95B061951	
10-30 Vdc	NPN	3 wires		IS-08-B3-S1	IS-08-B3-S2	IS-08-B3-03	
10-30 Vac	NO	3 wires	order No.	95B066810	95B066530	95B061861	
10-30 Vdc	c NPN 3 NC 3	3 wires		IS-08-B4-S1	IS-08-B4-S2	IS-08-B4-03	
10-30 Vac		3 wires	order No.	95B066830	95B066560	95B061891	
10-30 Vdc	PNP	4 wires					
10-50 vuc	NO-NC		order No.				
10-30 Vdc	NPN	Luiros					
10-50 Vac	NO-NC	0-NC 4 wires	order No.				
10-30 Vdc	NO-NC	2 wires					
10-30 vuc	NU-NC	Z WIIes	order No.				
20-250 Vac/Vdc	NO	2 wires					
20-230 Vac/Vac	NO	Z WITES	order No.				
20-250 Vac/Vdc	NC	2 wires					
20-230 vac/ vuc	NC	2 WIIES	order No.				
20-250 Vac	NO	2/3 wires					
20-230 Vac	NO	Z/3 WILES	order No.				
10-30 Vdc	Analog 0-20	3 wires					
10-30 VuC	mA	5 wires	order No.				
NAMUR amplifier	NAMUR	2 wires					
NAMOR ampuller	NAMUK	2 wires	order No.				

Nominal Voltage	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)
Residual Ripple	< 10%	< 10%	< 10%
Hysteresis	< 10%	< 10%	< 10%
Max. Output Current	200mA	200mA	200mA
Min. Output Current			
Residual Current	< 10 mA	< 10 mA	< 10 mA
Voltage Drop	< 1,2 V (I=100mA)	< 1,2 V (I=100mA)	< 1,2 V (I=100mA)
Operation Led	Yellow	Yellow	Yellow
Switching Frequency	1000 Hz	1000 Hz	1000 Hz
Start Up Delay	< 50 ms	< 50 ms	< 50 ms
Repeatability	< 3%	< 3%	< 3%
Short Circuit Protection	Present (self-resetting)	Present (self-resetting)	Present (self-resetting)
Electric Protection	Against polarity reversal inductive loads	Against polarity reversal inductive loads	Against polarity reversal inductive loads
Temperature Limit	(-25 +70 °C)	(-25 +70 °C)	(-25 +70 °C)
Protection Degree	IP67	IP67	IP67
Cable Length			2 m
Cable Section			3 x 0,14 mm ²
Housing Material	Nickel-plated brass	Nickel-plated brass	Nickel-plated brass
Active face	LCP	LCP	LCP
Tightening torque	* see page 5 of the Inductive Sensors Catalog	* see page 5 of the Inductive Sensors Catalog	* see page 5 of the Inductive Sensors Catalog
Weight - Cable Output		-	80 g
Weight - Connector Output	35g	55g	



	SHORT	
	NON FLUSH	
M8 conn	M12 conn	cable
2 mm	2 mm	2 mm
211111		2 11111
IS-08-D1-S1	 IS-08-D1-S2	 IS-08-D1-03
95B066970	958066700	95B062321
IS-08-D2-S1	IS-08-D2-S2	IS-08-D2-03
95B067000	958066720	95B062351
IS-08-D3-S1	IS-08-D3-S2	IS-08-D3-03
958066920	958066650	958066430
IS-08-D4-S1	IS-08-D4-S2	IS-08-D4-03
95B066940	95B066670	958062291
10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)
< 10%	< 10%	< 10%
< 10%	< 10%	< 10%
200mA	200mA	200mA
< 10 mA	< 10 mA	< 10 mA
< 1,2 V (I=100mA)	< 1,2 V (I=100mA)	< 1,2 V (I=100mA)
Yellow	Yellow	Yellow
1000 Hz	1000 Hz	1000 Hz
< 50 ms	< 50 ms	< 50 ms
< 3%	< 3%	< 3%
Present (self-resetting)	Present (self-resetting)	Present (self-resetting)
Against polarity reversal	Against polarity reversal	Against polarity reversal
inductive loads	inductive loads	inductive loads
(-25 +70 °C)	(-25 +70 °C)	(-25 +70 °C)
IP67	IP67	IP67
IF 07	IF 07	2 m
		3 x 0,14 mm ²
 Nickel-plated brass		Nickel-plated brass
LCP	Nickel-plated brass LCP	LCP
see page 5 of the Inductive Sensors Catalog	* see page 5 of the Inductive Sensors Catalog	* see page 5 of the Inductive Sensors Catalo
		80 g

3 wires PNP or NPN



M12 3 pole



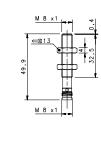
C	ONTACTS	CONFIGU	RATION	
Auglishis		Contacts	numbers	
Available	1	2	3	4
(NO or NC)	+		-	NO/NC

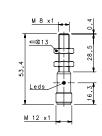
M8 3 pole

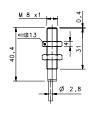


	ACTS CON		
	Contacts numbers		
Available	1 BROWN	3 BLUE	4 BLACK
NPN/PNP	+	_	NO/NC



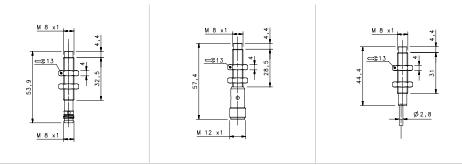






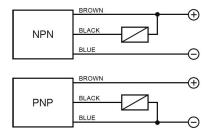
cable
cable
cable
Cable
2 mm
IS-08-G1-03
95B066370
IS-08-G2-03
95B066390
IS-08-G3-03
95B066330
IS-08-G4-03
95B066350

Nominal Voltage	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)
Residual Ripple	< 10%	< 10%	< 10%
Hysteresis	< 10%	< 10%	< 10%
Max. Output Current	200mA	200mA	200mA
Min. Output Current			
Residual Current	< 10 mA	< 10 mA	< 10 mA
Voltage Drop	< 1,2 V (l=100mA)	< 1,2 V (l=100mA)	< 1,2 V (I=100mA)
Operation Led	Yellow	Yellow	Yellow
Switching Frequency	500 Hz	500 Hz	500 Hz
Start Up Delay	< 75 ms	< 75 ms	< 75 ms
Repeatability	< 3%	< 3%	< 3%
Short Circuit Protection	Present (self-resetting)	Present (self-resetting)	Present (self-resetting)
Electric Protection	Against polarity reversal inductive loads	Against polarity reversal inductive loads	Against polarity reversal inductive loads
Temperature Limit	(-25 +60 °C)	(-25 +60 °C)	(-25 +70 °C)
Protection Degree	IP67	IP67	IP67
Cable Length			2 m
Cable Section			3 x 0,14 mm ²
Housing Material	Nickel-plated brass	Nickel-plated brass	Nickel-plated brass
Active face	LCP	LCP	LCP
Tightening torque	* see page 5 of the Inductive Sensors Catalog	* see page 5 of the Inductive Sensors Catalog	* see page 5 of the Inductive Sensors Catalog
Weight - Cable Output			80 g
Weight - Connector Output	35g	55g	



	SHORT X2	
	NON FLUSH	
M8 conn	M12 conn	cable
3 mm	3 mm	3 mm
		511111
IS-08-H1-S1	IS-08-H1-S2	IS-08-H1-03
95B066960	95B066690	95B066480
IS-08-H2-S1	IS-08-H2-S2	IS-08-H2-03
95B066990	95B063301	95B066500
IS-08-H3-S1	IS-08-H3-S2	IS-08-H3-03
95B066910	95B066640	95B066420
IS-08-H4-S1	IS-08-H4-S2	IS-08-H4-03
95B063251	95B063241	95B066460
10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)
< 10%	< 10%	< 10%
< 10%	< 10%	< 10%
200mA	200mA	200mA
< 10 mA	< 10 mA	< 10 mA
< 1,2 V (I=100mA)	< 1,2 V (l=100mA)	< 1,2 V (I=100mA)
Yellow	Yellow	Yellow
500 Hz	500 Hz	500 Hz
< 75 ms	< 75 ms	< 75 ms
< 3%	< 3%	< 3%
Present (self-resetting)	Present (self-resetting)	Present (self-resetting)
Against polarity reversal	Against polarity reversal	Against polarity reversal
inductive loads	inductive loads	inductive loads
(-25 +60 °C)	(-25 +60 °C)	(-25 +70 °C)
IP67	IP67	IP67
		2 m
		3 x 0,14 mm ²
Nickel-plated brass	Nickel-plated brass	Nickel-plated brass
LCP	LCP	LCP
see page 5 of the Inductive Sensors Catalog	* see page 5 of the Inductive Sensors Catalog	* see page 5 of the Inductive Sensors Catalo
see page 5 of the maactive Sensor's caldlog	see page 5 of the inductive sensors caldlog	80 g
35g	55g	

3 wires PNP or NPN



M12 3 pole



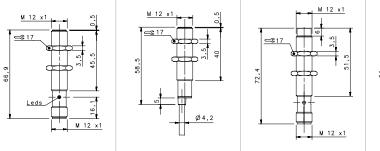
C	ONTACTS	CONFIGU	RATION	
Available		Contacts	numbers	
Available	1	2	3	4
(NO or NC)	+		-	NO/NC

M8 3 pole

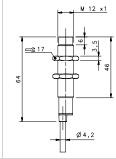


CONTACTS CONFIGURATION							
	Cor	ntacts num	bers				
Available	1 BROWN	3 BLUE	4 BLACK				
NPN/PNP	+	_	NO/NC				



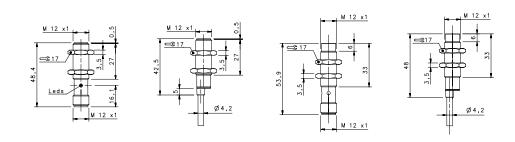


CTANDAD



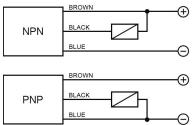
				STANDARD			
				FLI		NON	FLUSH
				M12 conn	cable	M12 conn	cable
NOMINAL SWITC	HING DISTAN	ICE		2 mm	2 mm	4 mm	4 mm
10.001/1	PNP/NPN	1		IS-12-A0-S2	IS-12-A0-03	IS-12-C0-S2	IS-12-C0-03
10-30 Vdc	NO-NC	4 wires	order No.	95B064060	95B064030	95B064080	95B064040
10-30 Vdc	PNP	2		IS-12-A1-S2	IS-12-A1-03	IS-12-C1-S2	IS-12-C1-03
10-30 Vac	NO	3 wires	order No.	95B061251	95B061241	95B061651	95B061641
10-30 Vdc	PNP	3 wires		IS-12-A2-S2	IS-12-A2-03	IS-12-C2-S2	IS-12-C2-03
10-30 Vac	NC	3 wires	order No.	95B061281	95B061271	95B061681	95B061671
10-30 Vdc	NPN	3 wires		IS-12-A3-S2	IS-12-A3-03	IS-12-C3-S2	IS-12-C3-03
10-30 Vac	NO	3 wires	order No.	95B061191	95B061181	95B061591	95B061581
10.001/1	NPN NC 3 wires	2		IS-12-A4-S2	IS-12-A4-03	IS-12-C4-S2	IS-12-C4-03
10-30 Vdc		NC	3 wires	order No.	95B061221	95B061211	95B061621
10-30 Vdc	PNP NO-NC	/ine e					
10-30 Vac		4 wires	order No.				
10-30 Vdc	NPN	/ine e					
10-30 Vac	NO-NC	4 wires	order No.				
10-30 Vdc	NO-NC	2 wires		IS-12-A9-S2	IS-12-A9-03	IS-12-C9-S2	IS-12-C9-03
10-30 Vac	NU-INC	2 wires	order No.	95B063931	95B064100	95B064140	95B064110
20-250 Vac/Vdc	NO	2 wires					
20-250 Vac/Vac	NU	2 wires	order No.				
20-250 Vac/Vdc	NC	2 wires					
20-200 Vac/ Vuc	NC.	Z WITES	order No.				
20-250 Vac	NO	2/3 wires					
20-2JU VdC	NU	2/J WIIES	order No.				
10-30 Vdc	Analog 0-20	3 wires					
10-30 400	mA	J WILES	order No.				
NAMUR amplifier	NAMUR	2 wires					
MANUT ampuller	NAMOR	2 WIIES	order No.				

Nominal Voltage	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)
Residual Ripple	< 10%	< 10%	< 10%	< 10%
Hysteresis	< 10%	< 10%	< 10%	< 10%
Max. Output Current	200mA; 100 mA (2wires)	200mA; 100 mA (2wires)	200mA; 100 mA (2wires)	200mA; 100 mA (2wires)
Min. Output Current	> 1,6 mA (2wires)	> 1,6 mA (2wires)	> 1,6 mA (2wires)	> 1,6 mA (2wires)
Residual Current	< 10mA; < 1,6 mA (2wires)	< 10mA; < 1,6 mA (2wires)	< 10mA; < 1,6 mA (2wires)	< 10mA; < 1,6 mA (2wires)
Voltage Drop	< 1,8V; < 6,5 V (2wires)	< 1,8V; < 6,5 V (2wires)	< 1,8V; < 6,5 V (2wires)	< 1,8V; < 6,5 V (2wires)
Operation Led	Yellow	Yellow	Yellow	Yellow
Switching Frequency	1000 Hz/200 Hz (2 wires NO-NC)	1000 Hz/200 Hz (2 wires NO-NC)	1000 Hz/200 Hz (2 wires NO-NC)	1000 Hz/200 Hz (2 wires NO-NC)
Start Up Delay	< 50 ms	< 50 ms	< 50 ms	< 50 ms
Repeatability	< 3%	< 3%	< 3%	< 3%
Short Circuit Protection	Present (self-resetting)	Present (self-resetting)	Present (self-resetting)	Present (self-resetting)
Electric Protection	Against polarity reversal inductive loads	Against polarity reversal inductive loads	Against polarity reversal inductive loads	Against polarity reversal inductive loads
Temperature Limit	(-25 +70 °C)	(-25 +70 °C)	(-25 +70 °C)	(-25 +70 °C)
Protection Degree	IP67	IP67	IP67	IP67
Cable Length		2 m		2 m
Cable Section		2 x 0,34 mm ² 3 x 0,14 mm ² 4 x 0,25 mm ²		2 x 0,34 mm ² 3 x 0,14 mm ² 4 x 0,25 mm ²
Housing Material	Nickel-plated brass	Nickel-plated brass	Nickel-plated brass	Nickel-plated brass
Active face	LCP	LCP	LCP	LCP
Tightening torque	* see page 5 of the Inductive Sensors Catalog	* see page 5 of the Inductive Sensors Catalog	* see page 5 of the Inductive Sensors Catalog	* see page 5 of the Inductive Sensors Catalog
Weight – Cable Output		110 g		110 g
Weight - Connector Output	60 g		60 g	

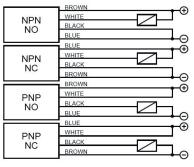


2 wires	NO or NC	
	BROWN	(Ð
NO	BLUE	—Θ
NC	BROWN	—Θ

3 wires PNP or NPN



4 wires (PNP/NPN, NO/NC)



M12 connector - connections



2 wires NO or NC

c	ONTACTS	CONFIGU	RATION		
Contacts numbers					
Available	1 2 3				
NO	+				
NC	_		+		

3 wires

C	CONTACTS CONFIGURATION							
Available		Contacts	numbers					
Available	1	2	3	4				
(NO or NC)	+		-	NO/NC				

4 wires (PNP/NPN, NO/NC)

Outrust		Contacts	numbers	
Output	1	2	3	4
NPN NO	+	NO	-	
NPN NC	_	NC	+	-
PNP NO	+	+		NO
PNP NC	_	+	+	NC

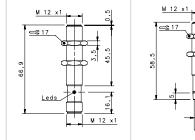
	SH	ORT	
FLI	JSH	NON FLUSH	
M12 conn	cable	M12conn	cable
2 mm	2 mm	4 mm	4 mm
IS-12-B1-S2	IS-12-B1-03	IS-12-D1-S2	IS-12-D1-03
95B062051	95B062041	95B062451	95B062441
IS-12-B2-S2	IS-12-B2-03	IS-12-D2-S2	IS-12-D2-03
95B062081	95B062071	95B062481	95B062471
IS-12-B3-S2	IS-12-B3-03	IS-12-D3-S2	IS-12-D3-03
95B061991	95B061981	95B062391	95B062381
IS-12-B4-S2	IS-12-B4-03	IS-12-D4-S2	IS-12-D4-03
95B062021	95B062011	95B062421	95B062411
10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)
< 10%	< 10%	< 10%	< 10%
< 10%	< 10%	< 10%	< 10%
200 mA	200 mA	200 mA	200 mA
< 10 mA	< 10 mA	< 10 mA	< 10 mA
< 1,8 V (I=100mA)	< 1,8 V (I=100mA)	< 1,8 V (I=100mA)	< 1,8 V (I=100mA)
Yellow	Yellow	Yellow	Yellow
1000 Hz	1000 Hz	1000 Hz	1000 Hz
< 50 ms	< 50 ms	< 50 ms	< 50 ms
< 3%	< 3%	< 3%	< 3%
Present (self-resetting)	Present (self-resetting)	Present (self-resetting)	Present (self-resetting)
Against polarity reversal inductive loads	Against polarity reversal inductive loads	Against polarity reversal inductive loads	Against polarity reversal inductive loads
(-25 +60 °C)	(-25 +70 °C)	(-25 +60 °C)	(-25 +70 °C)
IP67	IP67	IP67	IP67
	2 m		2 m
	3 x 0,14 mm ²		3 x 0,14 mm ²
Nickel-plated brass	Nickel-plated brass	Nickel-plated brass	Nickel-plated brass
LCP	LCP	LCP	LCP
see page 5 of the Inductive Sensors Catalog	* see page 5 of the Inductive Sensors Catalog	* see page 5 of the Inductive Sensors Catalog	* see page 5 of the Inductive Sensors Catalog
	110 g		110 g

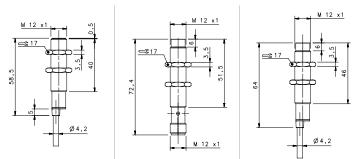
60 g



60 g



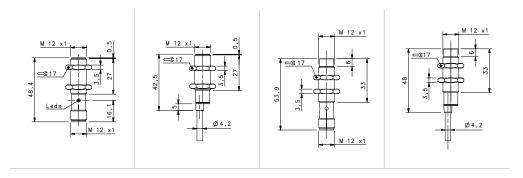




STANDARD X2

				FLUSH		NON FLUSH		
				M12 conn	cable	M12 conn	cable	
IOMINAL SWITC	HING DISTAN	ICE		4 r	nm	8 r	nm	
	PNP/NPN			IS-12-E0-S2	IS-12-E0-03	IS-12-F0-S2	IS-12-F0-03	
10-30 Vdc	NO-NC	4 wires	order No.	95B067230	95B067190	95B067250	95B067210	
	PNP			IS-12-E1-S2	IS-12-E1-03	IS-12-F1-S2	IS-12-F1-03	
10-30 Vdc	NO	3 wires	order No.	95B067030	95B067670	95B067020	95B067740	
	PNP o i			IS-12-E2-S2	IS-12-E2-03	IS-12-F2-S2	IS-12-F2-03	
10-30 Vdc	NC	3 wires	order No.	95B067640	95B067680	95B067710	95B067750	
	NPN			IS-12-E3-S2	IS-12-E3-03	IS-12-F3-S2	IS-12-F3-03	
0-30 Vdc	NO	3 wires	order No.	95B067650	958067690	95B067720	95B067760	
	NPN			IS-12-E4-S2	IS-12-E4-03	IS-12-F4-S2	IS-12-F4-03	
10-30 Vdc	NC	3 wires	order No.	95B067660	95B067700	95B067730	95B067770	
	PNP		order No.					
10-30 Vdc	NO-NC	4 wires	order No.					
			order No.					
0-30 Vdc	NPN NO-NC	4 wires	ordor No					
	110-110		order No.					
10-30 Vdc	NO-NC	2 wires	inde M	IS-12-E9-S2	IS-12-E9-03	IS-12-F9-S2	IS-12-F9-03	
			order No.	95B067240	95B067200	95B067260	95B067220	
20-250 Vac/Vdc	NO	2 wires						
			order No.					
20-250 Vac/Vdc	lc NC 2 w							
			order No.					
20-250 Vac	NO	2/3 wires						
20 200 Vac			order No.					
0-30 Vdc Analog 0-20 mA	3 wires							
	5 WIIES	order No.						
	NAMUD	2						
NAMUR amplifier	NAMUR	2 wires	order No.					
Nominal Voltage				10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	
Residual Ripple				< 10%	< 10%	< 10%	< 10%	
Hysteresis				< 10%	< 10%	< 10%	< 10%	
, Max. Output Current				100 mA	100 mA	100 mA	100 mA	
Min. Output Current								
Residual Current				< 10 mA	< 10 mA	< 10 mA	< 10 mA	
Voltage Drop				< 1,2 V (I=100mA)	< 1,2 V (I=100mA)	< 1,2 V (I=100mA)	< 1,2 V (I=100mA)	
Operation Led				Yellow	Yellow	Yellow	Yellow	
				500 Hz/200 Hz (2 wires NO-NC)	500 Hz/200 Hz (2 wires NO-NC)	400 Hz/200 Hz (2 wires NO-NC)	400 Hz/200 Hz (2 wires NO-N	
Switching Frequenc	y							
Start Up Delay				< 75 ms < 3%	< 75 ms < 3%	< 75 ms < 3%	< 75 ms < 3%	
Repeatability	11							
Short Circuit Protec	tion			Present (self-resetting)	Present (self-resetting)	Present (self-resetting)	Present (self-resetting)	
Electric Protection				Against polarity reversal inductive loads	Against polarity reversal inductive loads	Against polarity reversal inductive loads	Against polarity reversal inductive loads	
Temperature Limit				(-25 +70 °C)	(-25 +70 °C)	(-25 +70 °C)	(-25 +70 °C)	
Protection Degree				IP67	IP67	IP67	IP67	
able Length								
Cable Section					2 x 0,34 mm ² 3 x 0,14 mm ² 4 x 0,25 mm ²		2 x 0,34 mm ² 3 x 0,14 mm ² 4 x 0,25 mm ²	
Housing Material				Nickel-plated brass	Nickel-plated brass	Nickel-plated brass	Nickel-plated brass	
Active face				LCP	LCP	LCP	LCP	
				* see page 5 of the Inductive	* see page 5 of the Inductive	* see page 5 of the Inductive	* see page 5 of the Inductiv	
Tightening torque				Sensors Catalog	Sensors Catalog	Sensors Catalog	Sensors Catalog	
Weight – Cable Outpu								
Weight - Connector (Dutput			60 g	60 g	60 g	60 g	

COLATACOCIC



| cable 4 mm IS-12-G1-03 95B063361 IS-12-G2-03 95B063381 IS-12-G3-03 95B063321 IS-12-G4-03 95B063341 IS-12-G5-03 95B062681 IS-12-G6-03 95B062661 | NON M12 conn 8 mm IS-12-H1-S2 95B063451 IS-12-H2-S2 95B063471 IS-12-H3-S2 95B063411 IS-12-H4-S2 95B063431 IS-12-H5-S2 95B062771 IS-12-H6-S2 95B062751 <tr td=""> <tr td=""> <th>FLUSH
cable
8 mm

IS-12-H1-03
95B063441
IS-12-H2-03
95B063461
IS-12-H3-03
95B063401
IS-12-H3-03
95B063401
IS-12-H4-03
95B063421
IS-12-H5-03
95B062761
IS-12-H6-03
95B0627741

</th></tr><tr><th>4 mm

IS-12-G1-03
95B063361
IS-12-G2-03
95B063381
IS-12-G3-03
95B063321
IS-12-G3-03
95B063341
IS-12-G5-03
95B062681
IS-12-G6-03
95B062661

</th><th>8 mm
 IS-12-H1-S2 95B063451 IS-12-H2-S2 95B063471 IS-12-H2-S2 95B063411 IS-12-H4-S2 95B063411 IS-12-H4-S2 95B063431 IS-12-H5-S2 95B062771 IS-12-H6-S2 95B062771</th><th>8 mm

IS-12-H1-03
95B063441
IS-12-H2-03
95B063461
IS-12-H3-03
95B063401
IS-12-H4-03
95B063421
IS-12-H5-03
95B062761
IS-12-H5-03
95B062771

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IS-12-G1-03
95B063361
IS-12-G2-03
95B063381
IS-12-G3-03
95B063321
IS-12-G4-03
95B063341
IS-12-G5-03
95B062681
IS-12-G6-03
95B062661

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IS-12-H1-03
95B063441
IS-12-H2-03
95B063461
IS-12-H3-03
95B063401
IS-12-H3-03
95B063421
IS-12-H4-03
95B062761
IS-12-H5-03
95B062761
IS-12-H6-03
95B062741

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IS-12-G1-03
95B063361
IS-12-G2-03
95B063381
IS-12-G3-03
95B063321
IS-12-G4-03
95B063341
IS-12-G5-03
95B062661
IS-12-G6-03
95B062661

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95B063361
IS-12-G2-03
95B063381
IS-12-G3-03
95B063321
IS-12-G4-03
95B063341
IS-12-G5-03
95B062661

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95B063381
IS-12-G3-03
95B063321
IS-12-G4-03
95B063341
IS-12-G5-03
95B062681
IS-12-G6-03
95B062661

</td><td>IS-12-H2-S2 95B063471 IS-12-H3-S2 95B063411 IS-12-H4-S2 95B063431 IS-12-H5-S2 95B062771 IS-12-H6-S2 95B062751 <tr td=""> </tr></td><td>IS-12-H2-03 95B063461 IS-12-H3-03 95B063401 IS-12-H4-03 95B063421 IS-12-H5-03 95B062761 IS-12-H6-03 95B062741 </td></tr><tr><td>95B063381 IS-12-G3-03 95B063321 IS-12-G4-03 95B063341 IS-12-G5-03 95B062681 IS-12-G6-03 95B062661 </td><td>958063471 IS-12-H3-S2 958063411 IS-12-H4-S2 958063431 IS-12-H5-S2 958062771 IS-12-H6-S2 958062751 </td><td>95B063461 IS-12-H3-03 95B063401 IS-12-H4-03 95B063421 IS-12-H5-03
 95B062761 IS-12-H6-03 95B062741 <tr td=""></tr></td></tr><tr><td>IS-12-G3-03
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IS-12-G5-03
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IS-12-G6-03
95B062661

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95B063431
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IS-12-H6-S2
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IS-12-G5-03
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95B063421
IS-12-H5-03
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IS-12-H6-03
95B062741

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IS-12-G5-03
95B062681
IS-12-G6-03
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IS-12-H5-S2
95B062771
IS-12-H6-S2
95B062751

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IS-12-H5-03
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4 x 0,25 mm²</td></tr><tr><td>4 x 0,25 mm²</td><td></td><td></td></tr><tr><td>-</td><td>Nickel-plated brass</td><td>Nickel-plated brass</td></tr><tr><td>kel-plated brass</td><td>Nickel-plated brass</td><td>Nickel-plated brass</td></tr><tr><td>-</td><td>Nickel-plated brass
LCP
* see page 5 of the Inductive
Sensors Catalog</td><td>Nickel-plated brass
LCP
* see page 5 of the Inductive
Sensors Catalog</td></tr><tr><td>1</td><td>ent (self-resetting)
nst polarity
reversal
nductive loads
(-25 +70 °C)
IP67
2 m
3 x 0,14 mm²</td><td>ent (self-resetting) Present (self-resetting)
ist polarity reversal
inductive loads inductive loads
(-25 +70 °C) (-25 +70 °C)
IP67 IP67
2 m</td></tr></td></tr></tr> | FLUSH
cable
8 mm

IS-12-H1-03
95B063441
IS-12-H2-03
95B063461
IS-12-H3-03
95B063401
IS-12-H3-03
95B063401
IS-12-H4-03
95B063421
IS-12-H5-03
95B062761
IS-12-H6-03
95B0627741

 | 4 mm

IS-12-G1-03
95B063361
IS-12-G2-03
95B063381
IS-12-G3-03
95B063321
IS-12-G3-03
95B063341
IS-12-G5-03
95B062681
IS-12-G6-03
95B062661

 | 8 mm
IS-12-H1-S2 95B063451 IS-12-H2-S2 95B063471 IS-12-H2-S2 95B063411 IS-12-H4-S2 95B063411 IS-12-H4-S2 95B063431 IS-12-H5-S2 95B062771 IS-12-H6-S2 95B062771 | 8 mm

IS-12-H1-03
95B063441
IS-12-H2-03
95B063461
IS-12-H3-03
95B063401
IS-12-H4-03
95B063421
IS-12-H5-03
95B062761
IS-12-H5-03
95B062771

 |
IS-12-G1-03
95B063361
IS-12-G2-03
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4 x 0,25 mm²</td></tr> <tr><td>4 x 0,25 mm²</td><td></td><td></td></tr> <tr><td>-</td><td>Nickel-plated brass</td><td>Nickel-plated brass</td></tr> <tr><td>kel-plated brass</td><td>Nickel-plated brass</td><td>Nickel-plated brass</td></tr> <tr><td>-</td><td>Nickel-plated brass
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* see page 5 of the Inductive
Sensors Catalog</td><td>Nickel-plated brass
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* see page 5 of the Inductive
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Sensors Catalog | Nickel-plated brass
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IS-12-H3-03
95B063401
IS-12-H3-03
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IS-12-H4-03
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IS-12-H5-03
95B062761
IS-12-H6-03
95B0627741

 | 4 mm

IS-12-G1-03
95B063361
IS-12-G2-03
95B063381
IS-12-G3-03
95B063321
IS-12-G3-03
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| 30 Vdc (-15/10%) | 10-30 Vdc (-15/10%)

 | 10-30 Vdc (-15/10%) | | | | | | | | | | | |
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| < 10% | < 10%

 | < 10% | | | | | | | | | | | |
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| 200 mA | 200 mA

 | 200 mA | | | | | | | | | | | |
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| 6 mA (2wires ver.) | > 1,6 mA (2wires ver.)

 | > 1,6 mA (2wires ver.) | | | | | | | | | | | |
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| < 10 mA | < 10 mA

 | < 10 mA | | | | | | | | | | | |
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| 1,2 V (I=100mA) | < 1,2 V (I=100mA)

 | < 1,2 V (I=100mA) | | | | | | | | | | | |
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| Yellow | Yellow

 | Yellow | | | | | | | | | | | |
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| 00 Hz (4 wires NO-NC) | 500 Hz/200 Hz (4 wires NO-NC)

 | 500 Hz/200 Hz (4 wires NO-NO | | | | | | | | | | | |
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| < 75 ms | < 75 ms

 | < 75 ms | | | | | | | | | | | |
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| ent (self-resetting) | Present (self-resetting)

 | Present (self-resetting) | | | | | | | | | | | |
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| ist polarity reversal | . 5.

 | Against polarity reversal | | | | | | | | | | | |
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| | inductive loads

 | inductive loads | | | | | | | | | | | |
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| (-25 +70 °C) | (-25 +70 °C)

 | (-25 +70 °C) | | | | | | | | | | | |
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 | 3 x 0,14 mm ²
4 x 0,25 mm ² | | | | | | | | | | | |
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| 4 x 0,25 mm ² |

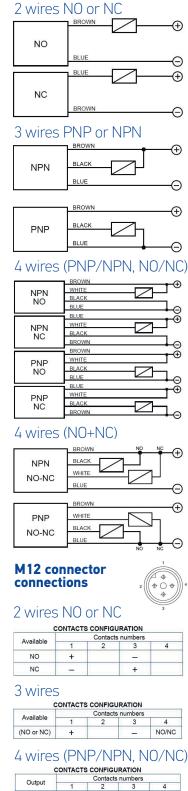
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| - | Nickel-plated brass

 | Nickel-plated brass | | | | | | | | | | | |
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| kel-plated brass | Nickel-plated brass

 | Nickel-plated brass | | | | | | | | | | | |
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| - | Nickel-plated brass
LCP
* see page 5 of the Inductive
Sensors Catalog

 | Nickel-plated brass
LCP
* see page 5 of the Inductive
Sensors Catalog | | | | | | | | | | | |
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| 1 | ent (self-resetting)
nst polarity reversal
nductive loads
(-25 +70 °C)
IP67
2 m
3 x 0,14 mm ²

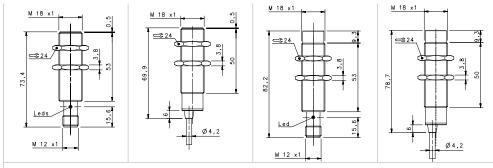
 | ent (self-resetting) Present (self-resetting)
ist polarity reversal
inductive loads inductive loads
(-25 +70 °C) (-25 +70 °C)
IP67 IP67
2 m | | | | | | | | | | | |
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NPN NO	+	NO	-	4
NPN NC	-	NC	+	- 1
PNP NO	+	+	-	NO
PNP NC	_	+	+	NC

Available	Contacts numbers				
Available	1	2	3	4	
(NO + NC)	+	NC	-	NO	

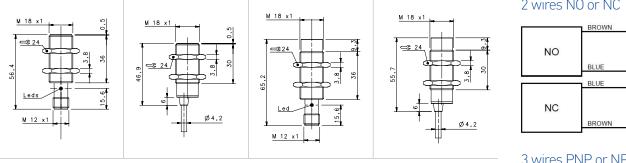




STANDARD

				FLU		NON FLUSH		
				M12 conn	cable	M12 conn	cable	
IOMINAL SWITCHING DISTANCE		5 mm	5 mm	8 mm	8 mm			
10.001/1	PNP/NPN			IS-18-A0-S2	IS-18-A0-03	IS-18-C0-S2	IS-18-C0-03	
10-30 Vdc	NO-NC	4 wires	order No.	95B064260	95B064230	95B064280	95B064240	
10-30 Vdc	PNP	2		IS-18-A1-S2	IS-18-A1-03	IS-18-C1-S2	IS-18-C1-03	
NO NO	3 wires	order No.	95B061351	95B061341	95B061751	95B061741		
10-30 Vdc	PNP	3 wires		IS-18-A2-S2	IS-18-A2-03	IS-18-C2-S2	IS-18-C2-03	
10-30 Vac	NC	3 wires	order No.	95B061371	95B061361	95B061771	95B061761	
10-30 Vdc	NPN			IS-18-A3-S2	IS-18-A3-03	IS-18-C3-S2	IS-18-C3-03	
10-30 Vac	NO	3 wires	order No.	95B061311	95B061301	95B061711	95B061701	
10-30 Vdc	NPN	2		IS-18-A4-S2	IS-18-A4-03	IS-18-C4-S2	IS-18-C4-03	
10-30 Vac	NC	3 wires	order No.	95B061331	95B061321	95B061731	95B061721	
10.001/4	PNP	4 wires						
10-30 Vdc NO-NC	NO-NC		order No.					
10.001/4	NPN	4 wires						
10-30 Vdc	NO-NC		order No.					
10.001/1		2 wires		IS-18-A9-S2	S-18-A9-03	IS-18-C9-S2	IS-18-C9-03	
10-30 Vdc	NO-NC		order No.	95B063941	95B064300	95B064340	95B064310	
20. 250 14 - 044	NO	2						
20-250 Vac/Vdc	Vdc NO	2 wires	order No.					
20-250 Vac/Vdc	NC	2 wires						
20-250 Vac/Vac	INC	2 wires	order No.					
20-250 Vac	NO	2/3 wires						
20-200 Vac	INU	Z/3 WIRES	order No.					
10-30 Vdc	Analog 0-20	3 wires						
10-30 Vac	mA	3 wires	order No.					
		2						
NAMUR amplifier	NAMUR	2 wires	order No.					

Nominal Voltage	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)
Residual Ripple	< 10%	< 10%	< 10%	< 10%
Hysteresis	< 10%	< 10%	< 10%	< 10%
Max. Output Current	200 mA	200 mA	200 mA	200 mA
Min. Output Current	> 1,6 mA (2wires ver.)			
Residual Current	< 10 mA	< 10 mA	< 10 mA	< 10 mA
Voltage Drop	< 1,8V; < 6,5 V (2wires ver.)			
Operation Led	Yellow	Yellow	Yellow	Yellow
Switching Frequency	1000 Hz/200 Hz (2 wires NO-NC)			
Start Up Delay	< 50 ms	< 50 ms	< 50 ms	< 50 ms
Repeatability	< 3%	< 3%	< 3%	< 3%
Short Circuit Protection	Present (self-resetting)	Present (self-resetting)	Present (self-resetting)	Present (self-resetting)
Electric Protection	Against polarity reversal inductive loads			
Temperature Limit	(-25 +60 °C)	(-25 +60 °C)	(-25 +60 °C)	(-25 +60 °C)
Protection Degree	IP67	IP67	IP67	IP67
Cable Length		2 m		2 m
Cable Section		2 x 0,34 mm² 3 x 0,14 mm² 4 x 0,25 mm²		2 x 0,34 mm ² 3 x 0,14 mm ² 4 x 0,25 mm ²
Housing Material	Nickel-plated brass	Nickel-plated brass	Nickel-plated brass	Nickel-plated brass
Active face	LCP	LCP	LCP	LCP
Tightening torque	* see page 5 of the Inductive Sensors Catalog	* see page 5 of the Inductive Sensors Catalog	* see page 5 of the Inductive Sensors Catalog	* see page 5 of the Inductive Sensors Catalog
Weight – Cable Output		145g		145g
Weight - Connector Output	95g		95g	



M12 conn

8 mm

cable

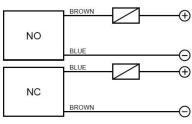
8 mm

SHORT

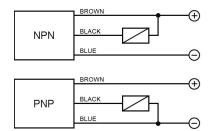
cable

5 mm

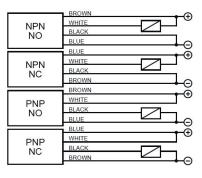
2 wires NO or NC



3 wires PNP or NPN



4 wires (PNP/NPN, NO/NC)



M12 connector - connections



2 wires NO or NC

Available	Contacts numbers					
Available	1	2	3	4		
NO	+					
NC	_		+			

3 wires

CC	ONTACTS	CONFIGU	RATION			
Ausilahla	Contacts numbers					
Available	1	2	3	4		
(NO or NC)	+		-	NO/NC		

4 wires (PNP/NPN, NO/NC)

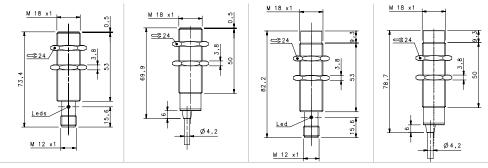
Outrust	Contacts numbers					
Output	1	2	3	4		
NPN NO	+	NO	-	-		
NPN NC	_	NC	+	-		
PNP NO	+	+		NO		
PNP NC	_	+	+	NC		

311111	511111	Unin	omm
IS-18-B1-S2	IS-18-B1-03	IS-18-D1-S2	IS-18-D1-03
95B062151	95B062141	95B062551	95B062541
IS-18-B2-S2	IS-18-B2-03	IS-18-D2-S2	IS-18-D2-03
95B062171	95B062161	95B062571	95B062561
IS-18-B3-S2	IS-18-B3-03	IS-18-D3-S2	IS-18-D3-03
95B062111	95B062101	95B062511	95B062501
IS-18-B4-S2	IS-18-B4-03	IS-18-D4-S2	IS-18-D4-03
95B062131	95B062121	95B062531	95B062521
10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)
< 10%	< 10%	< 10%	< 10%
< 10%	< 10%	< 10%	< 10%
200 mA	200 mA	200 mA	200 mA
< 10 mA	< 10 mA	< 10 mA	< 10 mA
< 1,8 V (I=100mA)	< 1,8 V (I=100mA)	< 1,8 V (I=100mA)	< 1,8 V (I=100mA)
Yellow	Yellow	Yellow	Yellow
1000 Hz	1000 Hz	1000 Hz	1000 Hz
< 50 ms	< 50 ms	< 50 ms	< 50 ms
< 3%	< 3%	< 3%	< 3%
Present (self-resetting)	Present (self-resetting)	Present (self-resetting)	Present (self-resetting)
Against polarity reversal inductive loads	Against polarity reversal inductive loads	Against polarity reversal inductive loads	Against polarity reversal inductive loads
(-25 +60 °C)	(-25 +60 °C)	(-25 +60 °C)	(-25 +60 °C)
IP67	IP67	IP67	IP67
	2 m		2 m
	2 III		۷ ۱۱۱
	3 x 0,14 mm ²		3 x 0,14 mm ²
Nickel-plated brass	Nickel-plated brass	Nickel-plated brass	Nickel-plated brass
LCP	LCP	LCP	LCP
see page 5 of the Inductive Sensors Catalog	* see page 5 of the Inductive Sensors Catalog	* see page 5 of the Inductive Sensors Catalog	* see page 5 of the Inductiv Sensors Catalog
	145g		145g
95g		95g	

M12 conn

5 mm



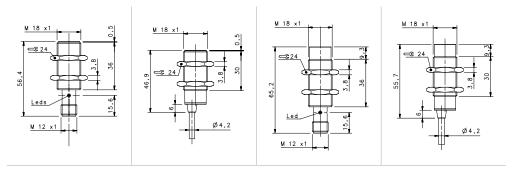


STANDARD X2

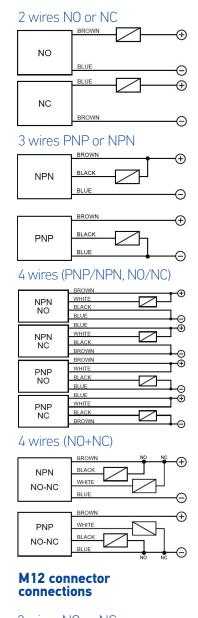
				FLUSH		NON FLUSH									
				M12 conn	cable	M12 conn	cable								
NOMINAL SWITCH	HING DISTAN	ICE		8 r	nm	14	mm								
	PNP/NPN			IS-18-E0-S2	IS-18-E0-03	IS-18-F0-S2	IS-18-F0-03								
10-30 Vdc	NO-NC	4 wires	order No.	95B067310	95B067270	95B067330	95B067290								
40.00.14	PNP			IS-18-E1-S2	IS-18-E1-03	IS-18-F1-S2	IS-18-F1-03								
10-30 Vdc	NO 3 wires	3 wires	order No.	95B067050	95B067810	95B067040	95B067880								
	PNP			IS-18-E2-S2	IS-18-E2-03	IS-18-F2-S2	IS-18-F2-03								
10-30 Vdc	NC	3 wires	order No.	95B067780	95B067820	95B067850	95B067890								
	-30 Vdc NPN NO			IS-18-E3-S2	IS-18-E3-03	IS-18-F3-S2	IS-18-F3-03								
10-30 Vdc		3 wires	order No.	95B067790	95B067830	95B067860	95B067900								
	. NPN			IS-18-E4-S2	IS-18-E4-03	IS-18-F4-S2	IS-18-F4-03								
10-30 Vdc	NC	3 wires	order No.	95B067800	95B067840	95B067870	95B067910								
	PNP														
10-30 Vdc	NO-NC	4 wires	order No.												
	NPN	NPN	NPN	NPN											
0-30 Vdc	NO-NC	4 wires	order No.												
	D-30 Vdc NO-NC											IS-18-E9-S2	IS-18-E9-03	IS-18-F9-S2	IS-18-F9-03
10-30 Vdc		2 wires	order No.	95B067320	95B067280	95B067340	95B067300								
D-250 Vac/Vdc NO	2 wires	order No.													
0-250 Vac/Vdc NC	2 wires	order No.													
	Vac NO 2														
0-250 Vac		2/3 wires	order No.												
	Analog 0-20														
0-30 Vdc	mA	3 wires	order No.												
NAMUR amplifier	NAMUR	2 wires	order No.												
Nominal Voltage				10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)								
Residual Ripple				< 10%	< 10%	< 10%	< 10%								
lvsteresis				< 10%	< 10%	< 10%	< 10%								
Max. Output Current				200 mA	200 mA	200 mA	200 mA								
Ain. Output Current															
Residual Current				< 10 mA	< 10 mA	< 10 mA	< 10 mA								
/oltage Drop				< 1,2 V (I=100mA)											
peration Led				Yellow	Yellow	Yellow	Yellow								
Switching Frequency	v			400 Hz	400 Hz	100 Hz	100 Hz								
itart Up Delay	,			< 50 ms	< 50 ms	< 50 ms	< 50 ms								
Repeatability				< 3%	< 3%	< 3%	< 3%								
Short Circuit Protect	tion			Present (self-resetting)	Present (self-resetting)	Present (self-resetting)	Present (self-resetting)								
Electric Protection				Against polarity reversal inductive loads											
Tomporaturo Limit				(25 +70 °C)	(25 ±70 °C)	(25 +70 °C)	(25 +70 °C)								

Hysteresis	< 10%	< 10%	< 10%	< 10%
Max. Output Current	200 mA	200 mA	200 mA	200 mA
Min. Output Current				
Residual Current	< 10 mA	< 10 mA	< 10 mA	< 10 mA
Voltage Drop	< 1,2 V (I=100mA)	< 1,2 V (I=100mA)	< 1,2 V (I=100mA)	< 1,2 V (I=100mA)
Operation Led	Yellow	Yellow	Yellow	Yellow
Switching Frequency	400 Hz	400 Hz	100 Hz	100 Hz
Start Up Delay	< 50 ms	< 50 ms	< 50 ms	< 50 ms
Repeatability	< 3%	< 3%	< 3%	< 3%
Short Circuit Protection	Present (self-resetting)	Present (self-resetting)	Present (self-resetting)	Present (self-resetting)
Electric Protection	Against polarity reversal inductive loads	Against polarity reversal inductive loads	Against polarity reversal inductive loads	Against polarity reversal inductive loads
Temperature Limit	(-25 +70 °C)	(-25 +70 °C)	(-25 +70 °C)	(-25 +70 °C)
Protection Degree	IP67	IP67	IP67	IP67
Cable Length				
Cable Section		2 x 0,34 mm ² 3 x 0,14 mm ² 4 x 0,25 mm ²		2 x 0,34 mm ² 3 x 0,14 mm ² 4 x 0,25 mm ²
Housing Material	Nickel-plated brass	Nickel-plated brass	Nickel-plated brass	Nickel-plated brass
Active face	LCP	LCP	LCP	LCP
Tightening torque	* see page 5 of the Inductive Sensors Catalog	* see page 5 of the Inductive Sensors Catalog	* see page 5 of the Inductive Sensors Catalog	* see page 5 of the Inductive Sensors Catalog
Weight - Cable Output			145g	145g
Weight - Connector Output	95g	95g		

OIDOJATACOCIC



	SHO	RT X2	
FLU		NON	LUSH
M12 conn	cable	M12 conn	cable
8 mm	8 mm	14 mm	14 mm
IS-18-G1-S2	IS-18-G1-03	IS-18-H1-S2	IS-18-H1-03
95B063531	95B063521	95B063611	95B063601
IS-18-G2-S2	IS-18-G2-03	IS-18-H2-S2	IS-18-H2-03
95B063551	95B063541	95B063631	95B063621
IS-18-G3-S2	IS-18-G3-03	IS-18-H3-S2	IS-18-H3-03
95B063491	95B063061	95B063571	95B063561
IS-18-G4-S2	IS-18-G4-03	IS-18-H4-S2	IS-18-H4-03
95B063511	95B063501	95B063591	95B063581
IS-18-G5-S2	IS-18-G5-03	IS-18-H5-S2	IS-18-H5-03
95B062731	95B062721	95B062811	95B064220
IS-18-G6-S2	IS-18-G6-03	IS-18-H6-S2	IS-18-H6-03
95B062711	95B064200	95B062791	95B064210
10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)
< 10%	< 10%	< 10%	< 10%
< 10%	< 10%	< 10%	< 10%
200 mA	200 mA	200 mA	200 mA
> 1,6 mA (2wires ver.)	> 1,6 mA (2wires ver.)	> 1,6 mA (2wires ver.)	> 1,6 mA (2wires ver.)
< 10 mA	< 10 mA	< 10 mA	< 10 mA
< 1,2 V (I=100mA)	< 1,2 V (I=100mA)	< 1,2 V (I=100mA)	< 1,2 V (I=100mA)
Yellow	Yellow	Yellow	Yellow
400 Hz/100 Hz (4 wires NO-NC)	400 Hz/100 Hz (4 wires NO-NC)	400 Hz/100 Hz (4 wires NO-NC)	400 Hz/100 Hz (4 wires NO-NC)
< 75 ms	<75 ms	< 75 ms	<75 ms
< 3%	< 3%	< 3%	< 3%
Present (self-resetting)	Present (self-resetting)	Present (self-resetting)	Present (self-resetting)
. 3.			
Against polarity reversal inductive loads	Against polarity reversal inductive loads	Against polarity reversal inductive loads	Against polarity reversal inductive loads
(-25 +60 °C)		(-25 +60 °C)	
(-25 +80 C) IP67	(-25 +70 °C) IP67	(-25 +80°C) IP67	(-25 +70 °C) IP67
	2 m		2 m
	3 x 0,14 mm ² 4 x 0,25 mm ²		3 x 0,14 mm² 4 x 0,25 mm²
Nickel-plated brass	Nickel-plated brass	Nickel-plated brass	Nickel-plated brass
LCP	LCP	LCP	LCP
* see page 5 of the Inductive	* see page 5 of the Inductive	* see page 5 of the Inductive	* see page 5 of the Inductive
Sensors Catalog	Sensors Catalog	Sensors Catalog	Sensors Catalog
	145g		145g



2 wires NO or NC

Available	Contacts numbers				
	1	2	3	4	
NO	+		-		
NC	-		+		

3 wires

C	ONTACTS	CONFIGU	RATION			
Available	Contacts numbers					
Available	1	2	3	4		
(NO or NC)	+		-	NO/NC		

4 wires (PNP/NPN, NO/NC)

Output		Contacts	numbers	
Output	1	2	3	4
NPN NO	+	NO	-	-
NPN NC	_	NC	+	-
PNP NO	+	+	-	NO
PNP NC	_	+	+	NC

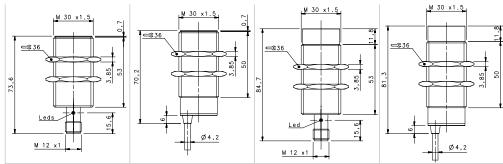
4 wires (NO+NC)

Available		Contacts	numbers	
Available	1	2	3	4
(NO + NC)	+	NC	-	NO

\$DATALOGIC

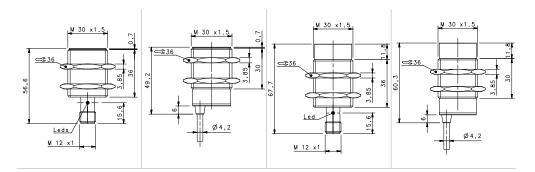


NOMINAL SWITCHING DISTANCE



STANDARD FLUSH NON FLUSH M12 conn cable M12 conn cable 10 mm 10 mm 15 mm 15 mm IS-30-A0-S2 IS-30-A0-03 IS-30-C0-S2 IS-30-C0-03 95B064490 95B064460 95B064510 95B064470 IS-30-A1-S2 IS-30-A1-03 IS-30-C1-S2 IS-30-C1-03 95B061431 95B061421 95B061831 95B061821

10-30 Vdc	PNP/NPN	4 wires		IS-30-A0-S2	IS-30-A0-03	IS-30-C0-S2	IS-30-C0-03
10-30 Vac	NO-NC	4 wires	order No.	95B064490	95B064460	95B064510	95B064470
10-30 Vdc	PNP	2		IS-30-A1-S2	IS-30-A1-03	IS-30-C1-S2	IS-30-C1-03
10-30 Vac	NO	3 wires	order No.	95B061431	95B061421	95B061831	95B061821
10.001/1	PNP	2		IS-30-A2-S2	IS-30-A2-03	IS-30-C2-S2	IS-30-C2-03
10-30 Vdc	NC 3 wires order No.		95B061451	95B061441	95B061851	95B061841	
10-30 Vdc	NPN 3 wires			IS-30-A3-S2	IS-30-A3-03	IS-30-C3-S2	IS-30-C3-03
10-30 Vac	NO	3 WIres	order No.	95B061391	95B061381	95B061791	95B061781
10-30 Vdc	NPN	2		IS-30-A4-S2	IS-30-A4-03	IS-30-C4-S2	IS-30-C4-03
10-30 Vac	NC	3 wires	order No.	95B061411	95B061401	95B061811	95B061801
10.001/1	PNP	1					
10-30 Vdc	NO-NC	4 wires	order No.				
10-30 Vdc	NPN .						
10-30 Vac	NO-NC	4 wires	order No.				
10.001/1				IS-30-A9-S2	IS-30-A9-03	IS-30-C9-S2	IS-30-C9-03
10-30 Vdc	NO-NC	2 wires	order No.	95B064570	95B064530	95B064590	95B064550
20. 250 1/2 - 0/4							
20-250 Vac/Vdc	NO	2 wires	order No.				
20.250 1/2 - 0/-1-	NC	2					
20-250 Vac/Vdc	NC	2 wires	order No.				
00.050.1/		0/0					
20-250 Vac	NO	2/3 wires	order No.				
10.001/1	Analog 0-20	. ·					
10-30 Vdc	mA	3 wires	order No.				
		0					
NAMUR amplifier	NAMUR	2 wires	order No.				
Nominal Voltage				10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)
Residual Ripple				< 10%	< 10%	< 10%	< 10%
Hysteresis				< 10%	< 10%	< 10%	< 10%
Max. Output Current				200mA; 100 mA (2wires)	200mA; 100 mA (2wires)	200mA; 100 mA (2wires)	200mA; 100 mA (2wires)
Min. Output Current				> 1,6 mA (2wires)	> 1,6 mA (2wires)	> 1,6 mA (2wires)	> 1,6 mA (2wires)
Residual Current				< 1,6 mA	< 1,6 mA	< 1,6 mA	< 1,6 mA
Voltage Drop				< 1,8V; < 6,5 V (2wires)	< 1,8V; < 6,5 V (2wires)	< 1,8V; < 6,5 V (2wires)	< 1,8V; < 6,5 V (2wires)
Operation Led				Yellow	Yellow	Yellow	Yellow
Switching Frequency	y			300 Hz/250 Hz (2 wires NO-NC)	300 Hz/250 Hz (2 wires NO-NC)	300 Hz/250 Hz (2 wires NO-NC)	300 Hz/250 Hz (2 wires NO-NC)
Start Up Delay				< 50 ms	< 50 ms	< 50 ms	< 50 ms
Repeatability				< 3%	< 3%	< 3%	< 3%
Short Circuit Protec	tion			Present (self-resetting)	Present (self-resetting)	Present (self-resetting)	Present (self-resetting)
Electric Protection				Against polarity reversal inductive loads	Against polarity reversal inductive loads	Against polarity reversal inductive loads	Against polarity reversal inductive loads
Temperature Limit				(-25 +70 °C)	(-25 +70 °C)	(-25 +70 °C)	(-25 +70 °C)
Protection Degree				IP67	IP67	IP67	IP67
Cable Length					2 m		2 m
Cable Section					2 x 0,34 mm ² 3 x 0,14 mm ² 4 x 0,25 mm ²		2 x 0,34 mm ² 3 x 0,14 mm ² 4 x 0,25 mm ²
Housing Material				Nickel-plated brass	Nickel-plated brass	Nickel-plated brass	Nickel-plated brass
Active face				LCP	LCP	LCP	LCP
Tightening torque				* see page 5 of the Inductive Sensors Catalog	* see page 5 of the Inductive Sensors Catalog	* see page 5 of the Inductive Sensors Catalog	* see page 5 of the Inductive Sensors Catalog
Weight - Cable Outpu	t				210 g		210 g
Weight - Connector O				170 g		170 g	



SHORT

cable

10 mm

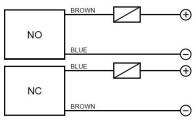
M12 conn

15 mm

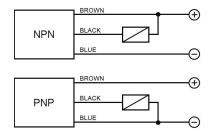
cable

15 mm

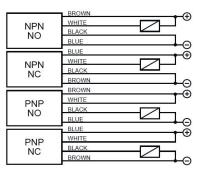
2 wires NO or NC



3 wires PNP or NPN



4 wires (PNP/NPN, NO/NC)



M12 connector - connections



2 wires NO or NC

Available	Contacts numbers				
	1	2	3	4	
NO	+				
NC	-		+		

3 wires

Available	Contacts numbers				
	1	2	3	4	
(NO or NC)	+		-	NO/NC	

4 wires (PNP/NPN, NO/NC)

Outrust		Contacts	numbers	
Output	1	2	3	4
NPN NO	+	NO	-	i
NPN NC	_	NC	+	-
PNP NO	+	+		NO
PNP NC	_	+	+	NC

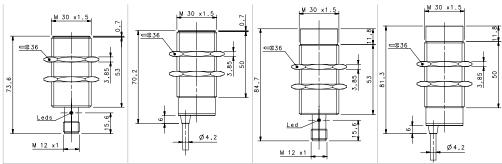
IU mm	10 mm	15 mm	15 mm
IS-30-B1-S2	IS-30-B1-03	IS-30-D1-S2	IS-30-D1-03
95B062231	95B062221	95B062631	95B062621
IS-30-B2-S2	IS-30-B2-03	IS-30-D2-S2	IS-30-D2-03
95B062251	95B062241	95B062651	95B062641
IS-30-B3-S2	IS-30-B3-03	IS-30-D3-S2	IS-30-D3-03
95B062191	95B062181	95B062591	95B062581
IS-30-B4-S2	IS-30-B4-03	IS-30-D4-S2	IS-30-D4-03
95B062211	95B062201	95B062611	95B062601
10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)
< 10%	< 10%	< 10%	< 10%
< 10%	< 10%	< 10%	< 10%
200 mA	200 mA	200 mA	200 mA
< 10 mA	< 10 mA	< 10 mA	< 10 mA
< 1,8 V (I=100mA)	< 1,8 V (I=100mA)	< 1,8 V (I=100mA)	< 1,8 V (I=100mA)
Yellow	Yellow	Yellow	Yellow
300 Hz	300 Hz	300 Hz	300 Hz
< 50 ms	< 50 ms	< 50 ms	< 50 ms
< 3%	< 3%	< 3%	< 3%
Present (self-resetting)	Present (self-resetting)	Present (self-resetting)	Present (self-resetting)
Against polarity reversal inductive loads	Against polarity reversal inductive loads	Against polarity reversal inductive loads	Against polarity reversa inductive loads
(-25 +60 °C)	(-25 +60 °C)	(-25 +60 °C)	(-25 +60 °C)
IP67	IP67	IP67	IP67
	2 m		2 m
	£ (1)		2 111
	3 x 0,14 mm ²		3 x 0,14 mm ²
Nickel-plated brass	Nickel-plated brass	Nickel-plated brass	Nickel-plated brass
LCP	LCP	LCP	LCP
see page 5 of the Inductive Sensors Catalog	* see page 5 of the Inductive Sensors Catalog	* see page 5 of the Inductive Sensors Catalog	* see page 5 of the Inducti Sensors Catalog
	210 g		210 g
170 g		170 g	

COLATACO

M12 conn

10 mm

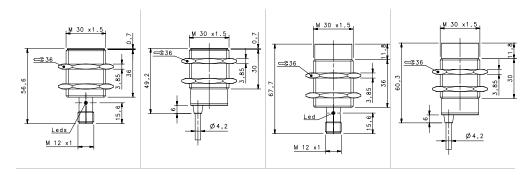




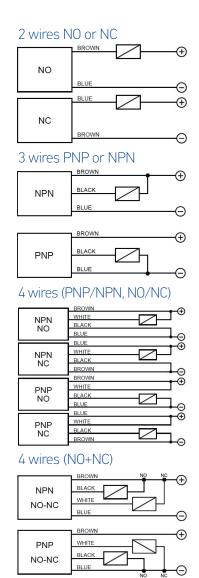
STANDARD X2

				FLU	JSH	NON-FLUSH	
				M12 conn	cable	M12 conn	cable
IOMINAL SWITC	HING DISTAN	ICE		15mm	15mm	20 mm	20 mm
	PNP/NPN			IS-30-E0-S2	IS-30-E0-03	IS-30-F0-S2	IS-30-F0-03
10-30 Vdc	NO-NC	4 wires	order No.	95B067390	95B067350	95B067410	95B067370
	PNP			IS-30-E1-S2	IS-30-E1-03	IS-30-F1-S2	IS-30-F1-03
10-30 Vdc	NO	3 wires	order No.	95B067060	95B067950	958067990	95B068030
	PNP			IS-30-E2-S2	IS-30-E2-03	IS-30-F2-S2	IS-30-F2-03
10-30 Vdc	NC	3 wires	order No.	95B067920	95B067960	95B068000	95B068040
	NPN		order rto.	IS-30-E3-S2	IS-30-E3-03	IS-30-F3-S2	IS-30-F3-03
10-30 Vdc	0-30 Vdc NO 3 wires order No.		95B067930	95B067970	95B068010	95B068050	
	NPN a.		order No.	IS-30-E4-S2	IS-30-E4-03	IS-30-F4-S2	IS-30-F4-03
10-30 Vdc	NC	3 wires	order No.	95B067940	95B067980	95B068020	95B068060
			order No.				
10-30 Vdc	PNP NO-NC	4 wires	order No.				
			order No.				
10-30 Vdc	NPN NO-NC	4 wires	order No.				
			order No.	 IS-30-E9-S2	IS-30-E9-03	 IS-30-F9-S2	 IS-30-F9-03
10-30 Vdc	NO-NC	2 wires	order Ma	95B067400			
			order No.		95B067360	95B067420	95B067380
20-250 Vac/Vdc	NO	2 wires	andar: NI -				
			order No.				
20-250 Vac/Vdc	c NC 2 wires						
			order No.				
20-250 Vac	NO 2/3 wires						
			order No.				
10-30 Vdc	Analog 0-20	3 wires					
	mA		order No.				
NAMUR amplifier	NAMUR	2 wires					
			order No.				
Nominal Voltage				10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)
Residual Ripple				< 10%	< 10%	< 10%	< 10%
Hysteresis				< 10%	< 10%	< 10%	< 10%
Max. Output Current				200 mA	200 mA	200 mA	200 mA
				200 MA	200 MA	200 MA	200 MA
Min. Output Current	(
Residual Current				< 10 mA	< 10 mA	< 10 mA	< 10 mA
Voltage Drop				< 6,5 V (I=100mA)	< 6,5 V (l=100mA)	< 6,5 V (l=100mA)	< 6,5 V (I=100mA)
Operation Led				Yellow	Yellow	Yellow	Yellow
Switching Frequence	cy			200 Hz/100 Hz (2 wires NO-NC)	200 Hz/100 Hz (2 wires NO-NC)	200 Hz/100 Hz (2 wires NO-NC)	200 Hz/100 Hz (2 wires NO-N
Start Up Delay				< 75 ms	< 75 ms	< 75 ms	< 75 ms
Repeatability				< 3%	< 3%	< 3%	< 3%
Short Circuit Protec	ction			Present (self-resetting)	Present (self-resetting)	Present (self-resetting)	Present (self-resetting)
Electric Protection				Against polarity reversal inductive loads	Against polarity reversal inductive loads	Against polarity reversal inductive loads	Against polarity reversal inductive loads
Temperature Limit				(-25 +70 °C)	(-25 +70 °C)	(-25 +70 °C)	(-25 +70 °C)
Protection Degree				IP67	IP67	IP67	IP67
Cable Length							
Cable Section					2 x 0,34 mm ² 3 x 0,14 mm ² 4 x 0,25 mm ²		2 x 0,34 mm ² 3 x 0,14 mm ² 4 x 0,25 mm ²
Housing Material				Nickel-plated brass	Nickel-plated brass	Nickel-plated brass	Nickel-plated brass
Active face				LCP	LCP	LCP	LCP
Active face				* see page 5 of the Inductive	* see page 5 of the Inductive	* see page 5 of the Inductive	* see page 5 of the Inductive
Tightening torque				Concore Catalan			
Tightening torque Weight - Cable Outp	ut			Sensors Catalog	Sensors Catalog	Sensors Catalog	Sensors Catalog

COLATACOLIC



	SHU	RT X2	
FLI	JSH	NON	FLUSH
M12 conn	cable	M12 conn	cable
15mm	15mm	20 mm	20 mm
IS-30-G1-S2	IS-30-G1-03	IS-30-H1-S2	IS-30-H1-03
95B063691	95B063681	95B063771	95B063761
IS-30-G2-S2	IS-30-G2-03	IS-30-H2-S2	IS-30-H2-03
95B063711	95B063701	95B063791	95B063781
IS-30-G3-S2	IS-30-G3-03	IS-30-H3-S2	IS-30-H3-03
95B063651	95B063641	95B063731	95B063721
IS-30-G4-S2	IS-30-G4-03	IS-30-H4-S2	IS-30-H4-03
95B063671	95B063661	95B063751	95B063741
IS-30-G5-S2	IS-30-G5-03	IS-30-H5-S2	IS-30-H5-03
95B063831	95B063821	95B064450	95B064420
IS-30-G6-S2	IS-30-G6-03	IS-30-H6-S2	IS-30-H6-03
95B064430	95B064400	95B064440	95B064410
10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)
< 10%	< 10%	< 10%	< 10%
< 10%	< 10%	< 10%	< 10%
200 mA	200 mA	200 mA	200 mA
200 MA	200111A	200111A	200111A
			< 10 mA
< 10 mA	< 10 mA	< 10 mA	
< 1,2 V (I=100mA)	< 1,2 V (I=100mA)	< 1,2 V (I=100mA)	< 1,2 V (I=100mA)
Yellow	Yellow	Yellow	Yellow
200 Hz	200 Hz	200 Hz	200 Hz
< 75 ms	< 75 ms	< 75 ms	< 75 ms
< 3%	< 3%	< 3%	< 3%
Present (self-resetting)	Present (self-resetting)	Present (self-resetting)	Present (self-resetting)
Against polarity reversal inductive loads	Against polarity reversal inductive loads	Against polarity reversal inductive loads	Against polarity reversal inductive loads
(-25 +70 °C)	(-25 +70 °C)	(-25 +70 °C)	(-25 +70 °C)
IP67	IP67	IP67	(-25 +70 C) IP67
IF0/		IF07	2 m
	2 m		
	3 x 0,14 mm ² 4 x 0,25 mm ²		3 x 0,14 mm² 4 x 0,25 mm²
Nickel-plated brass	Nickel-plated brass	Nickel-plated brass	Nickel-plated brass
LCP	LCP	LCP	LCP
* see page 5 of the Inductive Sensors Catalog	* see page 5 of the Inductive Sensors Catalog	* see page 5 of the Inductive Sensors Catalog	* see page 5 of the Inductiv Sensors Catalog
	210 g		210 g
170 g		170 g	



M12 connector connections

2 wires NO or NC

Available	Contacts numbers				
Available	1	2	3	4	
NO	+		-		
NC	-		+		

3 wires

C	ONTACTS	CONFIGU	RATION	
Available		Contacts	numbers	
Available	1	2	3	4
(NO or NC)	+		-	NO/NC

4 wires (PNP/NPN, NO/NC)

Output	Contacts numbers					
Output	1	2	3	4		
NPN NO	+	NO	-	-		
NPN NC	_	NC	+	-		
PNP NO	+	+	-	NO		
PNP NC	_	+	+	NC		

4 wires (NO+NC)

Available		Contacts	numbers	
Available	1	2	3	4
(NO + NC)	+	NC	_	NO

OIDOJATACO

Stainless Steel housing M4, M5 POM active face - M6,5, M8, M12, M18, M30 LCP active face Standard length Short length Normal and double range operating distance Operating distance 0.8 ... 20 mm M4, M5, M6,5, M8, M12, M18, M30 Cable, M8 or M12 connector 3 wires PNP, NPN, NO, NC IP69K protection

REDUCTION FACTOR

	ALUMINUM (25°C)	STAINLESS STEEL AISI316L	COPPER	BRASS
FLUSH	0,30,5	0,70,9	0,20,5	0,40,6
NON-FLUSH	0,40,6	0,71,05	0,40,5	0,50,7

M12/18/30 models are Diversey and ECOLAB tested



*Excluded M4 and M5 models



IP69K Each Stainless Steel model is IP69K tested M12/18/30 models are IP69K certified

STAINLESS STEEL





STAINLESS STEEL M4

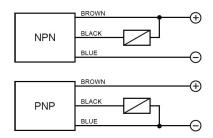


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25	19		Led
-	_	<u>∏</u>	Ø2,7

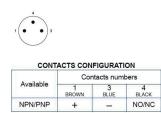
				STANDARD
				FLUSH
				cable
NOMINAL SWITC	HING DISTAN	ICE		0,8 mm
10-30 Vdc	PNP/NPN NO-NC	4 wires	order No.	
10-30 Vdc	PNP	3 wires	order No.	IS-04-A1-03
10-30 Vac	NO	3 wires	order No.	95B061011
10-30 Vdc	PNP	3 wires		
10 50 440	NC	5 11105	order No.	
10-30 Vdc	NPN	3 wires		IS-04-A3-03
10 00 140	NO	0 11100	order No.	95B061001
10-30 Vdc	NPN	3 wires		
10 00 140	NC		order No.	
10-30 Vdc	PNP	4 wires		
10 00 140	NO-NC		order No.	
10-30 Vdc	NPN	4 wires		
10 00 140	NO-NC	4 11100	order No.	
10-30 Vdc	NO-NC	2 wires		
10 00 140		2 11103	order No.	
20-250 Vac/Vdc	NO	2 wires		
20 200 146, 146	110	2 11103	order No.	
20-250 Vac/Vdc	NC	2 wires		
20 200 100, 100		2 111 00	order No.	
20-250 Vac	NO	2/3 wires		
			order No.	
10-30 Vdc	Analog 0-20	3 wires		
	mA		order No.	
NAMUR amplifier	NAMUR	2 wires		
	NAMOR	2 WIICS	order No.	

Nominal Voltage	10-30 Vdc (-15/10%)		
Residual Ripple	< 10%		
Hysteresis	< 15%		
Max. Output Current	100 mA		
Min. Output Current			
Residual Current	< 0,01 mA		
Voltage Drop	< 1,5 V		
Operation Led	Yellow		
Switching Frequency	2000 Hz		
Start Up Delay			
Repeatability	< 1%		
Short Circuit Protection	Present (self-resetting)		
Electric Protection	Against polarity reversal inductive loads		
Temperature Limit	(-25 +70 °C)		
Protection Degree	IP69K		
Cable Length	2 m (PUR)		
Cable Section	3x 0,15 mm ²		
Housing Material	Stainless-Steel		
Active face	POM		
Tightening torque			
Weight - Cable Output	50 g		
Weight - Connector Output			

3 wires PNP or NPN



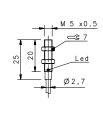
M8 3 pole



STAINLESS STEEL M5



M 5 ×0.5
~ Led
₽ ₽ Ø 6,5
M 8 ×1





-						
				STAN	IDARD	STANDARD X2
				FLI	USH	FLUSH
				M8 conn	cable	cable
NOMINAL SWITCH	ING DISTANCE	Ε		0,8 mm	0,8 mm	1,5 mm
10-30 Vdc	PNP/NPN	4 wires				
10-50 440	NO-NC	4 111125	order No.			
10-30 Vdc	PNP	3 wires		IS-05-A1-S1	IS-05-A1-03	
	NO		order No.	95B061051	95B061041	
10-30 Vdc	PNP	3 wires				
	NC		order No.			
10-30 Vdc	NPN	3 wires		IS-05-A3-S1	IS-05-A3-03	IS-05-E3-03
	NO		order No.	95B061031	95B061021	95B065400
10-30 Vdc	NPN NC	3 wires			IS-05-A4-03	
			order No.		95B065420	
10-30 Vdc	PNP NO-NC	4 wires	andar: NI-			
			order No.			
10-30 Vdc	NPN NO-NC	4 wires	and a Na			
	INU-INC		order No.			
10-30 Vdc	NO-NC	2 wires	1.11			
			order No.			
20-250 Vac/Vdc	NO	2 wires				
			order No.			
20-250 Vac/Vdc	NC	2 wires				
			order No.			
20-250 Vac	NO	2/3 wires				
			order No.			
10-30 Vdc	Analog 0-20	3 wires				
	mA		order No.			
NAMUR amplifier	NAMUR	2 wires				
			order No.			
Nominal Voltage				10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)
Residual Ripple				< 10%	< 10%	< 10%
Hysteresis				< 15%	< 15%	< 15%
Max. Output Current				100 mA	100 mA	100 mA
Min. Output Current	1					
Residual Current				< 0,01 mA	< 0,01 mA	< 0,01 mA
Voltage Drop				< 1,5V	< 1,5V	< 1,5V
Operation Led		Yellow	Yellow	Yellow		
Switching Frequence	;y			2000 Hz	2000 Hz	2000 Hz
Start Up Delay						
Repeatability				< 1%	< 1%	
Short Circuit Protec	ction			Present (self-resetting)	Present (self-resetting)	Present (self-resetting)
Electric Protection		Against polarity reversal inductive loads	Against polarity reversal inductive loads	Against polarity reversal inductive loads		
Temperature Limit				(-25 +70 °C)	(-25 +70 °C)	(-25 +70 °C)
Protection Degree				IP69K	IP69K	IP69K
Cable Length					2 m (PUR)	2 m (PUR)
Cable Section					3x 0,15 mm ²	3x 0,15 mm ²
Housing Material				Stainless-Steel	Stainless-Steel	Stainless-Steel
Active face				POM	POM	POM
Tightening torque				1,5 Nm	1,5 Nm	1,5 Nm
Weinha Cable Outer					25~	25~

14g

Weight - Cable Output

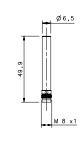
Weight - Connector Output

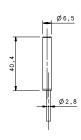
25g

25g

STAINLESS STEEL M6,5

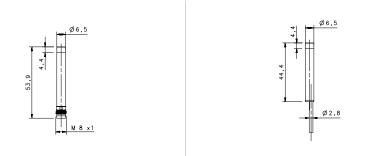






SHORT STAINLESS STEEL

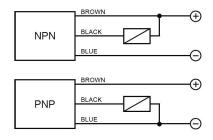
				FLUSH		
				M8 conn	cable	
NOMINAL SWITC	HING DISTAN	ICE		1,5 mm	1,5 mm	
40.001/1	PNP/NPN					
10-30 Vdc	NO-NC	4 wires	order No.			
	PNP a c			IS-65-M1-S1	IS-65-M1-03	
10-30 Vdc	NO	3 wires	order No.	95B066080	95B064760	
	PNP			IS-65-M2-S1	IS-65-M2-03	
10-30 Vdc	NC	3 wires	order No.	95B066120	95B064800	
0.001/1	NPN			IS-65-M3-S1	IS-65-M3-03	
0-30 Vdc	NO	3 wires	order No.	95B066000	95B064680	
	NPN			IS-65-M4-S1	IS-65-M4-03	
0-30 Vdc	NC	3 wires	order No.	95B066040	95B064720	
	PNP					
0-30 Vdc	NO-NC	4 wires	order No.			
	NPN					
0-30 Vdc	NO-NC	4 wires	order No.			
0.001/1						
0-30 Vdc	NO-NC	2 wires	order No.			
20-250 Vac/Vdc	NO	2 wires	order No.			
20-250 Vac/Vdc	NC	2 wires	order No.			
20-250 Vac	NO	2/3 wires	order No.			
	Analog 0-20					
0-30 Vdc	mA	3 wires	order No.			
NAMUR amplifier	NAMUR	2 wires	order No.			
Nominal Voltage				10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	
Residual Ripple				< 10%	< 10%	
lysteresis				< 10%	< 10%	
Max. Output Curre	nt			200 mA	200 mA	
Ain. Output Curre						
Residual Current				< 10 mA	< 10 mA	
/oltage Drop				< 1,2 V (I=100mA)	< 1,2 V (I=100mA)	
peration Led				Yellow	Yellow	
witching Freque	ncv			1000 Hz	1000 Hz	
Start Up Delay				< 50 ms	< 50 ms	
Repeatability				< 3%	< 3%	
Short Circuit Protection			Present (self-resetting)	Present (self-resetting)		
Electric Protection			Against polarity reversal inductive loads	Against polarity reversal inductive loads		
Temperature Limit			(-25 +70 °C)	(-25 +70 °C)		
Protection Degree				IP69K	IP69K	
Cable Length						
Cable Section					3x 0,14 mm ²	
lousing Material				Stainless-Steel	Stainless-Steel	
Active face				LCP	LCP	
Tightening torque						
Weight - Cable Out	nut				 80 g	
Weight - Connector				 40 g		



SHORT STAINLESS STEEL

NON FLUSH					
M8 conn	cable				
2 mm	2 mm				
IS-65-N1-S1	IS-65-N1-03				
95B066240	95B064920				
IS-65-N2-S1	IS-65-N2-03				
95B066280	95B064960				
IS-65-N3-S1	IS-65-N3-03				
95B066160	95B064840				
IS-65-N4-S1	IS-65-N4-03				
95B066200	95B064880				
10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)				
< 10%	< 10%				
< 10%	< 10%				
200 mA	200 mA				
< 10 mA	< 10 mA				
< 1,2 V (I=100mA)	< 1,2 V (I=100mA)				
Yellow	Yellow				
1000 Hz	1000 Hz				
< 50 ms	< 50 ms				
< 3%	< 3%				
Present (self-resetting)	Present (self-resetting)				
Against polarity reversal	Against polarity reversal				
inductive loads	inductive loads				
(-25 +70 °C)	(-25 +70 °C)				
IP69K	IP69K				
	 3x 0,14 mm ²				
Stainless-Steel	Stainless-Steel				
LCP	LCP				
 40 g	80 g 				

3 wires PNP or NPN



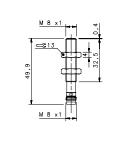
M8 3 pole

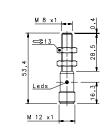


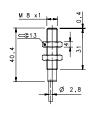
CONTACTS CONFIGURATION						
	Contacts numbers					
Available	1 BROWN	3 BLUE	4 BLACK			
NPN/PNP	+	_	NO/NC			

STAINLESS STEEL M8



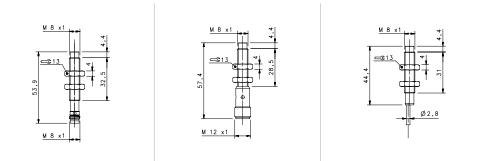






				SHORT STAINLESS STEEL				
				FLUSH				
				M8 conn	M12 conn	cable		
NOMINAL SWITCHING DISTANCE		1,5 mm	1,5 mm	1,5 mm				
10_30 V/dc	PNP/NPN NO-NC	4 wires						
			order No.					
	PNP	3 wires		IS-08-M1-S1	IS-08-M1-S2	IS-08-M1-03		
	NO		order No.	95B066870	95B066600	95B066380		
10-30 Vdc PNF NC	PNP	3 wires		IS-08-M2-S1	IS-08-M2-S2	IS-08-M2-03		
	NC	3 WIRes	order No.	95B066900	95B066630	95B066600		
10-30 Vdc NPN NO	NPN	3 wires		IS-08-M3-S1	IS-08-M3-S2	IS-08-M3-03		
	NO		order No.	95B066820	95B066540	95B066340		
10-30 Vdc NPN NC	NPN	3 wires		IS-08-M4-S1	IS-08-M4-S2	IS-08-M4-03		
	NC		order No.	95B066840	95B066570	95B066360		
10-30 Vdc PNP NO-NC		4 wires						
	NO-NC		order No.					
	NPN	4 wires						
	NO-NC	4 wires	order No.					
10-30 Vdc NO-	NO-NC	2 wires						
	NU-NC	2 WIIES	order No.					
20-250 Vac/Vdc NO	NO	2 wires						
	110	z wires	order No.					
20-250 Vac/Vdc NC	NC	2 wires						
	NC		order No.					
20-250 Vac NO	NO	0 2/3 wires						
	UVI		order No.					
	Analog 0-20	3 wires						
	mA		order No.					
NAMUR amplifier	NAMUR	2 wires						
	NAMUR		order No.					

Nominal Voltage	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)
Residual Ripple	< 10%	< 10%	< 10%
Hysteresis	< 10%	< 10%	< 10%
Max. Output Current	200 mA	200 mA	200 mA
Min. Output Current			
Residual Current	< 10 mA	< 10 mA	< 10 mA
Voltage Drop	< 1,2 V (I=100mA)	< 1,2 V (I=100mA)	< 1,2 V (I=100mA)
Operation Led	Yellow	Yellow	Yellow
Switching Frequency	1000 Hz	1000 Hz	1000 Hz
Start Up Delay	< 50 ms	< 50 ms	< 50 ms
Repeatability	< 3%	< 3%	< 3%
Short Circuit Protection	Present (self-resetting)	Present (self-resetting)	Present (self-resetting)
Electric Protection	Against polarity reversal inductive loads	Against polarity reversal inductive loads	Against polarity reversal inductive loads
Temperature Limit	(-25 +70 °C)	(-25 +70 °C)	(-25 +70 °C)
Protection Degree	IP69K	IP69K	IP69K
Cable Length			
Cable Section			3x 0,14 mm ²
Housing Material	Stainless-Steel	Stainless-Steel	Stainless-Steel
Active face	LCP	LCP	LCP
Tightening torque	* see page 5 of the Inductive Sensors Catalog	* see page 5 of the Inductive Sensors Catalog	* see page 5 of the Inductive Sensors Catalog
Weight - Cable Output			80 g
Weight - Connector Output	35g	55g	



SHORT STAINLESS STEEL cable M8 conn M12 conn 2 mm 2 mm 2 mm -----------------------IS-08-N1-S1 IS-08-N1-S2 IS-08-N1-03 95B066980 95B066710 95B066490 IS-08-N2-S1 IS-08-N2-S2 IS-08-N2-03 95B067010 95B066730 95B066510 IS-08-N3-03 IS-08-N3-S1 IS-08-N3-S2 95B066930 95B066660 95B066440 IS-08-N4-S1 IS-08-N4-S2 IS-08-N4-03 95B066950 95B066680 95B066470 ---10-30 Vdc (-15/10%) 10-30 Vdc (-15/10%) 10-30 Vdc (-15/10%) < 10% < 10% < 10% < 10% < 10% < 10% 200 mA 200 mA 200 mA ------------< 10 mA < 10 mA < 10 mA < 1,2 V (I=100mA) < 1,2 V (I=100mA) < 1,2 V (I=100mA) Yellow Yellow Yellow 1000 Hz 1000 Hz 1000 Hz < 50 ms < 50 ms < 50 ms < 3% < 3% < 3% Present (self-resetting) Present (self-resetting) Present (self-resetting)

Against polarity reversal

inductive loads

(-25 ... +70 °C)

IP69K

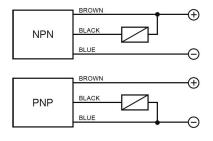
Stainless-Steel

LCP

 * see page 5 of the Inductive Sensors Catalog

55g

3 wires PNP or NPN



M12 3 pole



Contacts numbers						
Available	1	2	3	4		
(NO or NC)	+		-	NO/NC		

M8 3 pole

Against polarity reversal

inductive loads

(-25 ... +70 °C)

IP69K

3x 0,14 mm²

Stainless-Steel

LCP

* see page 5 of the Inductive Sensors Catalog 80 g

	4			
1	•	1		
•		•	3	
1		1		
	-			
		~ ~		

CONT	CONTACTS CONFIGURATION							
	Contacts numbers							
Available	1 BROWN	3 BLUE	4 BLACK					
NPN/PNP	+	_	NO/NC					

CONFICURATION

Against polarity reversal

inductive loads

(-25 ... +70 °C)

IP69K

---Stainless-Steel

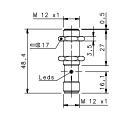
LCP

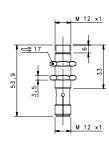
 * see page 5 of the Inductive Sensors Catalog

----35g

STAINLESS STEEL M12

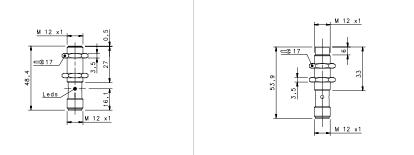






SHORT STAINLESS STEEL M12 conn M12 conn NOMINAL SWITCHING DISTANCE 2 mm 4 mm PNP/NPN -------10-30 Vdc 4 wires NO-NC order No. --------IS-12-M1-S2 IS-12-N1-S2 PNP 10-30 Vdc 3 wires NO 95B060240 95B060280 order No. PNP IS-12-M2-S2 IS-12-N2-S2 10-30 Vdc 3 wires NC order No. 95B060250 95B060290 IS-12-N3-S2 IS-12-M3-S2 NPN 10-30 Vdc 3 wires NO order No. 95B060260 95B060300 NPN IS-12-M4-S2 IS-12-N4-S2 10-30 Vdc 3 wires NC order No. 95B060270 95B060310 PNP -------10-30 Vdc 4 wires NO-NC order No. ---NPN --------10-30 Vdc 4 wires NO-NC order No. ----------------10-30 Vdc NO-NC 2 wires order No. ---------------20-250 Vac/Vdc NO 2 wires order No. --------------20-250 Vac/Vdc NC 2 wires order No. ----------------20-250 Vac NO 2/3 wires order No. --------Analog 0-20 -------10-30 Vdc 3 wires mΑ order No. -------------NAMUR amplifier NAMUR 2 wires order No. ----Nominal Volt

Nominal Voltage	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)
Residual Ripple	< 10%	< 10%
Hysteresis	< 10%	< 10%
Max. Output Current	200 mA	200 mA
Min. Output Current		
Residual Current	< 10 mA	< 10 mA
Voltage Drop	< 1,8 V (I=100mA)	< 1,8 V (l=100mA)
Operation Led	Yellow	Yellow
Switching Frequency	1000 Hz	1000 Hz
Start Up Delay	< 50 ms	< 50 ms
Repeatability	< 3%	< 3%
Short Circuit Protection	Present (self-resetting)	Present (self-resetting)
Electric Protection	Against polarity reversal inductive loads	Against polarity reversal inductive loads
Temperature Limit	(-25 +70 °C)	(-25 +70 °C)
Protection Degree	IP69K	IP69K
Cable Length		
Cable Section		
Housing Material	Stainless-Steel	Stainless-Steel
Active face	LCP	LCP
Tightening torque	* see page 5 of the Inductive Sensors Catalog	* see page 5 of the Inductive Sensors Catalog
Weight - Cable Output		
Weight - Connector Output	60 g	60 g



SIIONI SIAIN	LESS STEEL X2
FLUSH	NON FLUSH
M12 conn	M12 conn
4 mm	8 mm
IS-12-01-S2	IS-12-P1-S2
95B060000	95B060040
IS-12-02-S2	IS-12-P2-S2
95B060010	95B060050
IS-12-03-S2	IS-12-P3-S2
95B060020	95B060060
IS-12-04-S2	IS-12-P4-S2
958060030	95B060070
10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)
< 10%	< 10%
< 10%	< 10%
200 mA	200 mA
< 10 mA	< 10 mA
< 1,2 V (I=100mA)	< 1,2 V (I=100mA)
Yellow	Yellow
500 Hz	500 Hz
< 75 ms	< 75 ms
< 3%	< 3%
Present (self-resetting)	Present (self-resetting)
Against polarity reversal	Against polarity reversal
inductive loads	inductive loads
(-25 +70 °C)	(-25 +70 °C)
IP69K	IP69K
 Stainless-Steel	 Stainless-Steel
LCP	LCP
	* see page 5 of the Inductive Sensors Catalog
* see page 5 of the Inductive Sensors Catalog	

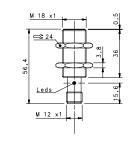
M12 3 pole

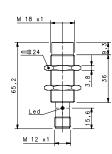


	CONTACTS CONFIGURATION							
1	Available		Contacts	numbers				
	Available	1	2	3	4			
	(NO or NC)	+		-	NO/NC			

STAINLESS STEEL M30

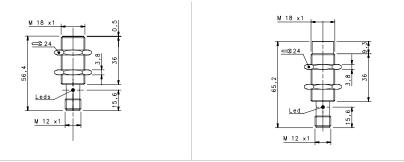






SHORT STAINLESS STEEL

				FLUSH	NON FLUSH
				M12 conn	M12 conn
OMINAL SWITCI	HING DISTAN	ISTANCE		5 mm	8 mm
0-30 Vdc	-30 Vdc PNP/NPN 4 wires				
0.00 vac	NO-NC	NO-NC 4 wires order No.			
0-30 Vdc	0 Vdc PNP 3 wires			IS-18-M1-S2	IS-18-N1-S2
0-30 Vuc	NO	5 WILES	order No.	95B060320	95B060360
0-30 Vdc	PNP	2 wiroc		IS-18-M2-S2	IS-18-N2-S2
0-30 VUC	NC	3 wires	order No.	95B060330	95B060370
2.20 Vd-	NPN	2		IS-18-M3-S2	IS-18-N3-S2
0-30 Vdc	NO	3 wires	order No.	95B060340	95B060380
0.001/1-	NPN	2		IS-18-M4-S2	IS-18-N4-S2
0-30 Vdc	NC	3 wires	order No.	95B060350	95B060390
	PNP				
0-30 Vdc	NO-NC	4 wires	order No.		
	NPN				
0-30 Vdc	NO-NC	4 wires	order No.		
0-30 Vdc	NO-NC	2 wires	order No.		
0-250 Vac/Vdc	NO	2 wires	order No.		
			order rto.		
0-250 Vac/Vdc	NC	2 wires	order No.		
			order No.		
D-250 Vac	NO	2/3 wires	ordor No		
	order No.		order No.		
0-30 Vdc	Analog 0-20 mA	3 wires	anden Ma		
	IIIA		order No.		
IAMUR amplifier	NAMUR	2 wires	and a Na		
			order No.		
					10,003/11 / 15/100/3
Iominal Voltage				10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)
esidual Ripple				< 10%	< 10%
lysteresis				< 10%	< 10%
lax. Output Curre				200 mA	200 mA
in. Output Curre	nt				
esidual Current				< 10 mA	< 10 mA
oltage Drop				< 1,8 V (I=100mA)	< 1,8 V (I=100mA)
peration Led				Yellow	Yellow
witching Freque	псу			1000 Hz	1000 Hz
tart Up Delay				< 50 ms	< 50 ms
epeatability				< 3%	< 3%
hort Circuit Prot	ection			Present (self-resetting)	Present (self-resetting)
lectric Protection	1			Against polarity reversal inductive loads	Against polarity reversal inductive loads
emperature Limit				(-25 +70 °C)	(-25 +70 °C)
rotection Degree				IP69K	IP69K
able Length					
able Section					
lousing Material				Stainless-Steel	Stainless-Steel
ctive face				LCP	LCP
ightening torque				* see page 5 of the Inductive Sensors Catalog	* see page 5 of the Inductive Sensors Catalog
• • •					
Veight - Cable Out	nut				



SHORT STAIN	LESS STEEL X2
FLUSH	NON FLUSH
M12 conn	M12 conn
8 mm	14 mm
IS-18-01-S2	IS-18-P1-S2
95B060080	95B060120
IS-18-02-S2	IS-18-P2-S2
95B060090	95B060130
IS-18-03-S2	IS-18-P3-S2
95B060100	95B060140
IS-18-04-S2	IS-18-P4-S2
95B060110	95B060150
10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)
< 10%	< 10%
< 10%	< 10%
200 mA	200 mA
< 10 mA	< 10 mA
< 1,2 V (I=100mA)	< 1,2 V (I=100mA)
Yellow	Yellow
200 Hz	200 Hz
< 75 ms	< 75 ms
< 3%	< 3%
Present (self-resetting)	Present (self-resetting)
Against polarity reversal inductive loads	Against polarity reversal inductive loads
(-25 +70 °C)	(-25 +70 °C)
IP69K	(-25+70 C) IP69K
	IP07N
 Stainless-Steel	 Stainless-Steel
LCP	LCP
* see page 5 of the Inductive Sensors Catalog	* see page 5 of the Inductive Sensors Catalog
1-5	

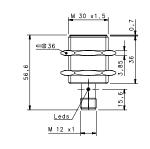
M12 3 pole

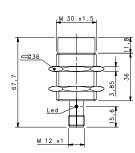


CONTACTS CONFIGURATION Contacts numbers							
Available	1	2	3	4			
(NO or NC)	+		-	NO/NC			

STAINLESS STEEL M30

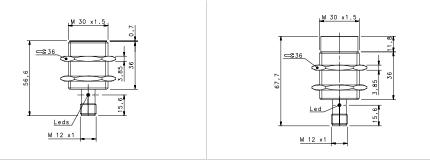






SHORT STAINLESS STEEL

				FLUSH	NON FLUSH
				M12 conn	M12
OMINAL SWITCH	HING DISTAN	ICE		10 mm	15 mm
	PNP/NPN				
0-30 Vdc NO-NC 4 wires order No.		order No.			
	PNP IS-30-M1-S2		IS-30-N1-S2		
0-30 Vdc	NO	3 wires	order No.	95B060400	95B060440
	PNP			IS-30-M2-S2	IS-30-N2-S2
0-30 Vdc	NC	3 wires	order No.	958060410	958060450
	NPN		order rite.	IS-30-M3-S2	IS-30-N3-S2
)-30 Vdc	NO	3 wires	order No.	958060420	958060460
	NPN		order No.	IS-30-M4-S2	IS-30-N4-S2
0-30 Vdc	NC	3 wires	order No.	95B060430	958060470
			order No.		
0-30 Vdc	PNP NO-NC	4 wires	order No.		
			order No.		
0-30 Vdc	NPN NO-NC	4 wires	ander M.		
	NU-NU		order No.		
0-30 Vdc	NO-NC	2 wires			
			order No.		
0-250 Vac/Vdc	NO	2 wires			
			order No.		
0-250 Vac/Vdc	NC	2 wires			
0 200 100, 100		2 111 00	order No.		
0-250 Vac	NO	2/3 wires			
5 230 vac	NO	2/3 Wires order No.			
0-30 Vdc	Analog 0-20	3 wires			
50 vuc	mA	5 WIIES	order No.		
IAMUR amplifier	NAMUR	2 wires			
AMON ampuller	NAMON	2 WIIES	order No.		
ominal Voltage				10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)
esidual Ripple				< 10%	< 10%
ysteresis				< 10%	< 10%
ax. Output Current				200 mA	200 mA
in. Output Current					
esidual Current				< 10 mA	< 10 mA
oltage Drop				< 1,8 V (I=100mA)	< 1,8 V (I=100mA)
peration Led				Yellow	Yellow
witching Frequency	v			300 Hz	300 Hz
tart Up Delay				< 50 ms	< 50 ms
epeatability				< 3%	< 3%
hort Circuit Protec	tion			Present (self-resetting)	Present (self-resetting)
none on can inforce	tion				
lectric Protection				Against polarity reversal inductive loads	Against polarity reversal inductive loads
emperature Limit				(-25 +70 °C)	(-25 +70 °C)
rotection Degree				IP69K	IP69K
able Length					
able Section					
ousing Material				Stainless-Steel	Stainless-Steel
ctive face				LCP	LCP
ightening torque				* see page 5 of the Inductive Sensors Catalog	* see page 5 of the Inductive Sensors Catalog
leight – Cable Outpu	ıt				
Veight - Connector O				170 g	170 g



	LESS STEEL X2
FLUSH	NON FLUSH
M12 conn	M12 conn
15 mm	20 mm
IS-30-01-S2	IS-30-P1-S2
95B060160	95B060200
IS-30-02-S2	IS-30-P2-S2
95B060170	95B060210
IS-30-03-S2	IS-30-P3-S2
95B060180	95B060220
IS-30-04-S2	IS-30-P4-S2
95B060190	95B060230
10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)
< 10%	< 10%
< 10%	< 10%
200 mA	200 mA
< 10 mA	< 10 mA
< 1,2 V (I=100mA)	< 1,2 V (I=100mA)
Yellow	Yellow
100 Hz	100 Hz
< 75 ms	< 75 ms
< 3%	< 3%
Present (self-resetting)	Present (self-resetting)
Against polarity reversal	Against polarity reversal
inductive loads	inductive loads
(-25 +70 °C)	(-25 +70 °C)
IP69K	IP69K
Stainless-Steel	Stainless-Steel
LCP	LCP
* see page 5 of the Inductive Sensors Catalog	* see page 5 of the Inductive Sensors Catalog

M12 3 pole



CONTACTS CONFIGURATION Contacts numbers							
Available	1	2	3	4			
(NO or NC)	+		-	NO/NC			

Stainless Steel housing Stainless Steel AISI 303 active face Standard length 2 ... 8 mm M12, M18 M12 connector 3 wires PNP, NO IP67 protection

REDUCTION FACTOR

ALUMINUM (25°C)		STAINLESS STEEL AISI316L	COPPER	BRASS	
Average red. Fact.	0,45	0,85	0,4	0,5	

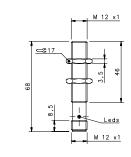
METAL FACE

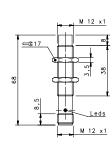




METAL FACE M12



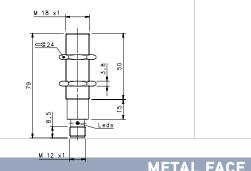


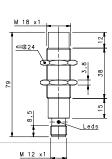


				META	L FACE
				FLUSH	NON FLUSH
				M12 conn	M12 conn
OMINAL SWITC	HING DISTAN	ICE		2 mm	4 mm
	PNP/NPN				
0-30 Vdc	NO-NC	4 wires	order No.		
	PNP			IS-12-I1-S2	IS-12-L1-S2
0-30 Vdc	NO	3 wires	order No.	95B065340	95B063871
	PNP				
0-30 Vdc	NC	3 wires	order No.		
0-30 Vdc	NPN	3 wires			
J-30 Vac	NO	3 wires	order No.		
)-30 Vdc	NPN	3 wires			
J-30 VUC	NC	5 WILES	order No.		
)-30 Vdc	PNP	4 wires			
5 50 Vuc	NO-NC	-+ 111165	order No.		
0-30 Vdc	NPN	4 wires			
5 50 140	NO-NC	4 WIICS	order No.		
0-30 Vdc	NO-NC	2 wires			
0 00 140		2 11103	order No.		
0-250 Vac/Vdc	NO	2 wires			
200 100, 100		2 11100	order No.		
0-250 Vac/Vdc	NC	2 wires			
			order No.		
0-250 Vac	NO	2/3 wires			
			order No.		
D-30 Vdc	Analog 0-20 mA NAMUR	0 3 wires 2 wires			
			order No.		
AMUR amplifier			order No.		
			order No.		
ominal Voltage				10-30 Vdc	10-30 Vdc
esidual Ripple				< 10%	<10%
ysteresis				< 15%	< 15%
lax. Output Current	+			200 mA	200 mA
lin. Output Curren					
esidual Current				< 0,01 mA	< 0,01 mA
oltage Drop				< 1,5 V (I=100mA)	< 1,5 V (I=100mA)
peration Led				Present	Present
witching Frequen	cv			2000 Hz	1000 Hz
tart Up Delay	-,				
epeatability				< 1%	<1%
hort Circuit Prote	ction			Present (self-resetting)	Present (self-resetting)
lectric Protection				Against polarity reversal	Against polarity reversal
				inductive loads	inductive loads
emperature Limit				(-25 +70 °C)	(-25 +70 °C)
rotection Degree				IP67	IP67
able Length					
able Section					
ousing Material				Stainless-Steel	Stainless-Steel
ctive face				Stainless Steel AISI 303	Stainless Steel AISI 303
ightening torque				10Nm	10Nm
/eight - Cable Outp					

METAL FACE M18







				METAI	_ FACE
				FLUSH	NON FLUSH
				M12 conn	M12 conn
NOMINAL SWITC	HING DISTAN	ICE		5 mm	8 mm
10-30 Vdc	PNP/NPN NO-NC	4 wires	order No.		
	PNP		order INO.	 IS-18-I1-S2	 IS-18-L1-S2
10-30 Vdc	NO	3 wires	order No.	95B065350	95B063881
10-30 Vdc	PNP NC	3 wires	order No.		
10-30 Vdc	NPN	3 wires	order 140.		
10-30 Vac	NO	5 WILES	order No.		
10-30 Vdc	NPN NC	3 wires	order No.		
	PNP		order rto.		
10-30 Vdc	NO-NC	4 wires	order No.		
10-30 Vdc	NPN	4 wires			
10-30 vac	NO-NC	4 WIIES	order No.		
10-30 Vdc	NO-NC	2 wires			
			order No.		
20-250 Vac/Vdc	NO	2 wires	order No.		
			order No.		
20-250 Vac/Vdc	NC	2 wires	order No.		
20-250 Vac	NO	2/3 wires	order No.		
10-30 Vdc	Analog 0-20	3 wires			
10 00 140	mA		order No.		
NAMUR amplifier	NAMUR	2 wires			
			order No.		
Nominal Voltage				10-30 Vdc	10-30 Vdc
Residual Ripple				< 10%	< 10%
Hysteresis				< 15%	< 15%
Max. Output Current				200 mA	200 mA
Min. Output Current	1			> 1,6 mA	> 1,6 mA
Residual Current				< 0,01 mA	< 0,01 mA
Voltage Drop				< 1,5 V	< 1,5 V
Operation Led				Present	Present
Switching Frequence	;y			1000 Hz	500 Hz
Start Up Delay					
Repeatability				<1%	< 1%
Short Circuit Protection				Present (self-resetting)	Present (self-resetting)
Electric Protection				Against polarity reversal inductive loads	Against polarity reversal inductive loads
Temperature Limit				(-25 +70 °C)	(-25 +70 °C)
Protection Degree				IP67	IP67
Cable Length					
Cable Section					
Housing Material				Stainless-Steel	Stainless-Steel
Active face				Stainless Steel AISI 303	Stainless Steel AISI 303
Tightening torque				10Nm	10Nm

95g

Weight - Cable Output Weight - Connector Output

95g

Stainless Steel housing PTFE active face Standard length Operating distance 2 ... 8 mm M12, M18 M12 connector 3 wires PNP, NO IP67 protection

REDUCTION FACTOR
ALUMINUM (25° C) STAINLESS STEEL
AISI316L
COPPER
BRASS
Average red. Fact. 0,45
0,85
0,4
0,5

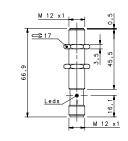
WELD FIELD IMMUNE

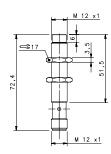




WELD FIELD IMMUNE M12



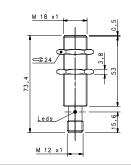


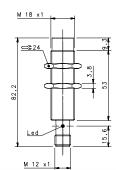


				FIELD IMMUNE STAINLESS STEEL		
				FLUSH	NON FLUSH	
				M12 conn	M12 conn	
				MTZ COTIT	MIZ CONT	
NOMINAL SWITC	HING DISTAN	ICE		2 mm	4 mm	
10-30 Vdc	PNP/NPN	4 wires				
10-50 Vuc	NO-NC	4 WILES	order No.			
10-30 Vdc	PNP	3 wires		IS-F12-S1-S2	IS-F12-T1-S2	
10 00 140	NO	o wires	order No.	95B065360	95B065370	
10-30 Vdc	PNP	3 wires				
	NC		order No.			
10-30 Vdc	NPN	3 wires				
	NO		order No.			
10-30 Vdc	NPN	3 wires				
	NC		order No.			
10-30 Vdc	PNP	4 wires				
	NO-NC		order No.			
10-30 Vdc	NPN NO-NC	4 wires	and a M			
	INO-INC		order No.			
10-30 Vdc	NO-NC	2 wires	N			
			order No.			
20-250 Vac/Vdc	NO	2 wires	onden Ne			
			order No.			
20-250 Vac/Vdc	NC	2 wires	order No.			
			order No.			
20-250 Vac	D Vac NO 2/3 wires		order No.			
	A		order No.			
10-30 Vdc	Analog 0-20 mA	3 wires	order No.			
		2 wires	order No.			
NAMUR amplifier	NAMUR		order No.			
Nominal Voltage				10-30 Vdc	10-30 Vdc	
Residual Ripple				< 10%	< 10%	
Hysteresis				< 15%	< 15%	
Max. Output Current				200 mA	200 mA	
Min. Output Current				< 10mA	< 10mA	
Residual Current				< 0,1 mA	< 0,1 mA	
Voltage Drop				< 1,5V	< 1,5V	
Operation Led				Present	Present	
Switching Frequence	;y			2000 Hz	1000 Hz	
Start Up Delay				< 0,1 ms	< 0,1 ms	
Repeatability				< 1%	< 1%	
Short Circuit Protec	ction			Present (self-resetting)	Present (self-resetting)	
Electric Protection				Against polarity reversal inductive loads	Against polarity reversal inductive loads	
Temperature Limit				(−25 +70 °C)	(-25 +70 °C)	
Protection Degree				IP67	IP67	
Cable Length						
Cable Section						
Housing Material				Stainless-Steel	Stainless-Steel	
Active face				PTFE	PTFE	
Tightening torque				10 Nm	10 Nm	
Weight - Cable Outpu	ut					
Weight - Connector (25g	23g	

WELD FIELD IMMUNE M18







				FIELD IMMUNE S	TAINLESS STEEL
				FLUSH	NON FLUSH
				M12 conn	M12 conn
IOMINAL SWITC	HING DISTAN	ICE		5 mm	8 mm
40.00141	PNP/NPN				
10-30 Vdc	NO-NC	4 wires	order No.		
10-30 Vdc	PNP	2		IS-F18-S1-S2	IS-F18-T1-S2
10-30 Vac	NO	3 wires	order No.	95B065380	95B065390
10-30 Vdc	PNP	3 wires			
10-30 Vuc	NC	5 WILES	order No.		
10-30 Vdc	NPN	3 wires			
10-50 400	NO	5 WIIES	order No.		
10-30 Vdc	NPN	3 wires			
10-50 vuc	NC	5 WIIES	order No.		
10-30 Vdc	PNP	4 wires			
10-30 vuc	NO-NC	4 WIIes	order No.		
10-30 Vdc	NPN	4 wires			
10-30 Vuc	NO-NC	4 WIIes	order No.		
10-30 Vdc	NO-NC	2 wires			
U-30 VUC	NU-NC	z wires	order No.		
20. 250 V Atd.	NO	2 wires			
20-250 Vac/Vdc	NU		order No.		
20-250 Vac/Vdc	NC	2 wires			
20-250 Vac/Vdc	NC	Z WIIES	order No.		
	NO	2/2			
20-250 Vac	NU	2/3 wires	order No.		
10.001/1	Analog 0-20	2			
10-30 Vdc	mA	3 wires	order No.		
		. ·			
NAMUR amplifier	NAMUR	2 wires	order No.		
				I	
Nominal Voltage				10-30 Vdc	10-30 Vdc
Residual Ripple				< 10%	< 10%
Hysteresis				< 15%	< 15%
- Max. Output Current				200 mA	200 mA
Min. Output Current				< 10mA	< 10mA
, Residual Current				< 0,1 mA	< 0,1 mA
Voltage Drop				< 1,5V	< 1,5V
Operation Led				Present	Present
Switching Frequenc	v			1000 Hz	500 Hz
Start Up Delay				< 0,2 ms	< 0,5 ms
Repeatability				<1%	<1%
Short Circuit Protec	tion			Present (self-resetting)	Present (self-resetting)
Electric Protection				Against polarity reversal inductive loads	Against polarity reversal inductive loads
Temperature Limit				(-25 +70 °C)	(-25 +70 °C)
Destantion Destant				(-20 +/0 C)	(-25 +/0 C)

IP67

Stainless-Steel

PTFE

30 Nm

94g

Protection Degree

Cable Length

Cable Section

Active face

Housing Material

Tightening torque

Weight - Cable Output Weight - Connector Output IP67

Stainless-Steel

PTFE

30 Nm

91g

Nickel-plated Brass housing PA 16 active face Standard length Operating distance 2 ... 10 mm M12, M18, M30 cable or M12 connector 20+250 Vac (50,60 Hz) 2 or 3 wires NO IP67 protection

REDUCTION FACTOR

		ALUMINUM (25°C)	STAINLESS STEEL AISI316L	COPPER	BRASS	
	Average red. Fact.	0,30,45	0,61	0,250,45	0,350,5	



INDUCTIVE AC





INDUCTIVE AC M12

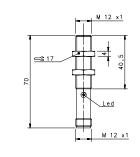


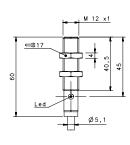
NAMUR amplifier

NAMUR

2 wires

order No.



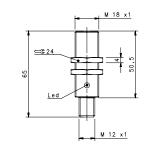


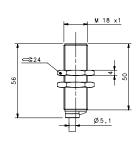
STANDARD VAC M12 conn cable NOMINAL SWITCHING DISTANCE 2 mm 2 mm PNP/NPN -------10-30 Vdc 4 wires NO-NC -------order No. PNP --------10-30 Vdc 3 wires NO order No. -----------PNP 10-30 Vdc 3 wires NC order No. -------NPN --------10-30 Vdc 3 wires NO -------order No. NPN -------10-30 Vdc 3 wires ----NC order No. -------PNP 10-30 Vdc 4 wires NO-NC order No. -------NPN --------10-30 Vdc 4 wires NO-NC order No. ----------------10-30 Vdc NO-NC 2 wires order No. ----------------20-250 Vac/Vdc NO 2 wires order No. ----------------20-250 Vac/Vdc NC 2 wires order No. ----IS-12-A15-S2 IS-12-A15-03 20-250 Vac NO 2/3 wires order No. 95B060690 95B060680 Analog 0-20 -------10-30 Vdc 3 wires mΑ order No. --------

Nominal Voltage	20+250 Vac (50,60 Hz)	20+250 Vac (50,60 Hz)
Residual Ripple	< 10%	< 10%
Hysteresis	< 10%	< 10%
Max. Output Current	500 mA, inrush:1,5A	500 mA, inrush:1,5A
Min. Output Current	20 mA	20 mA
Residual Current	< 0,7 mA	< 0,7 mA
Voltage Drop	< 4 V (I=100mA)	< 4 V (I=100mA)
Operation Led	Yellow	Yellow
Switching Frequency	25 Hz	25 Hz
Start Up Delay	< 300 ms	< 300 ms
Repeatability	5%	5%
Short Circuit Protection	Present (self-resetting)	Present (self-resetting)
Electric Protection	Against polarity reversal inductive loads	Against polarity reversal inductive loads
Temperature Limit	(-25 +70 °C)	(-25 +70 °C)
Protection Degree	IP67	IP67
Cable Length		2 m
Cable Section		2 x 0,25 mm ²
Housing Material	Nickel-plated brass	Nickel-plated brass
Active face	PA 16	PA 16
Tightening torque	* see page 5 of the Inductive Sensors Catalog	* see page 5 of the Inductive Sensors Catalog
Weight - Cable Output		145g
Weight - Connector Output	95g	

INDUCTIVE AC M18







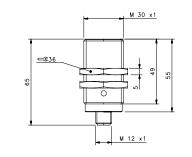
STANDARD VAC

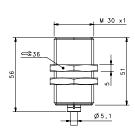
				FLUSH		
				M12 conn	cable	
NOMINAL SWITC	HING DISTAN	ICE		5 mm	5 mm	
10.001/1	PNP/NPN	, .				
10-30 Vdc	NO-NC	4 wires	order No.			
10-30 Vdc	PNP	3 wires				
10-30 Vac	NO	5 WILES	order No.			
10-30 Vdc	PNP	3 wires				
10-50 vuc	NC	5 WIIES	order No.			
10-30 Vdc	NPN	3 wires				
10 00 140	NO	0 11100	order No.			
10-30 Vdc	NPN NC	3 wires				
			order No.			
10-30 Vdc	PNP NO-NC	4 wires				
			order No.			
10-30 Vdc	NPN NO-NC	4 wires				
			order No.			
10-30 Vdc	NO-NC	2 wires				
			order No.			
20-250 Vac/Vdc	NO	2 wires				
			order No.			
20-250 Vac/Vdc	NC	2 wires				
			order No.			
20-250 Vac	NO	2/3 wires		IS-18-A15-S2	IS-18-A15-03	
			order No.	95B060780	95B060770	
10-30 Vdc	Analog 0-20 mA	3 wires	andan Ma			
	IIIA		order No.			
NAMUR amplifier	NAMUR	2 wires	andan Na			
			order No.			

Newing Velage	20, 250 \/== (50, (011=)	20, 200 \/a + (0, 11-)
Nominal Voltage	20+250 Vac (50,60 Hz)	20+250 Vac (50,60 Hz)
Residual Ripple	< 10%	< 10%
Hysteresis	< 10%	< 10%
Max. Output Current	500 mA, inrush:1,5A	500 mA, inrush:1,5A
Min. Output Current	20 mA	20 mA
Residual Current	< 0,7 mA	< 0,7 mA
Voltage Drop	< 4 V (l=100mA)	< 4 V (I=100mA)
Operation Led	Yellow	Yellow
Switching Frequency	25 Hz	25 Hz
Start Up Delay	< 300 ms	< 300 ms
Repeatability	5%	5%
Short Circuit Protection	Present (self-resetting)	Present (self-resetting)
Electric Protection	Against polarity reversal inductive loads	Against polarity reversal inductive loads
Temperature Limit	(-25 +70 °C)	(-25 +70 °C)
Protection Degree	IP67	IP67
Cable Length		2 m
Cable Section		2 x 0,25 mm ²
Housing Material	Nickel-plated brass	Nickel-plated brass
Active face	PA 16	PA 16
Tightening torque	* see page 5 of the Inductive Sensors Catalog	* see page 5 of the Inductive Sensors Catalog
Weight - Cable Output		145g
Weight - Connector Output	95g	

INDUCTIVE AC M30



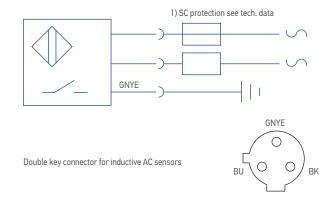




STANDARD VAC

				FL	USH	
				M12 conn	cable	
NOMINAL SWITCHING DISTANCE				10 mm	10 mm	
PNP/NPN / · ·						
0-30 Vdc	NO-NC	4 wires	order No.			
	PNP					
0-30 Vdc	NO	3 wires	order No.			
	PNP					
0-30 Vdc	NC	3 wires	order No.			
	NPN		order rto.			
)-30 Vdc	NO	3 wires	order No.			
	NPN		order rto.			
0-30 Vdc	NC	3 wires	order No.			
	PNP		order ivo.			
0-30 Vdc	NO-NC	4 wires	order No.			
			order No.			
0-30 Vdc	NPN NO-NC	4 wires	ordor No			
	NO-NC		order No.			
0-30 Vdc	NO-NC	2 wires				
			order No.			
0-250 Vac/Vdc	NO	2 wires				
			order No.			
0-250 Vac/Vdc	NC	2 wires				
			order No.			
20-250 Vac NO	NO	2/3 wires		IS-30-A15-S2	IS-30-A15-03	
			order No.	95B060820	95B060810	
10-30 Vdc Analog	Analog 0-20	-20 3 wires				
0 00 140	mA		order No.			
IAMUR amplifier	NAMUR	UR 2 wires				
	NAMOR	2 WIICS	order No.			
ominal Voltage				20+250 Vac (50,60 Hz)	20+250 Vac (50,60 Hz)	
esidual Ripple				<10%	<10%	
ysteresis				< 10%	< 10%	
-					500 mA, inrush:1,5A	
ax. Output Current				500 mA, inrush:1,5A 20 mA	20 mA	
in. Output Current	·				< 0,7 mA	
esidual Current				< 0,7 mA		
oltage Drop				< 4 V (I=100mA)	< 4 V (I=100mA)	
peration Led				Yellow	Yellow	
witching Frequenc	у			25 Hz	25 Hz	
tart Up Delay				< 300 ms	< 300 ms	
epeatability				5%	5%	
hort Circuit Protec	tion			Present (self-resetting)	Present (self-resetting)	
lectric Protection				Against polarity reversal inductive loads	Against polarity reversal inductive loads	
emperature Limit				(-25 +70 °C)	(-25 +70 °C)	
rotection Degree				IP67	IP67	
able Length					2 m	
able Section					2 x 0,25 mm ²	
ousing Material				Nickel-plated brass	Nickel-plated brass	
ctive face				PA 16	PA 16	
ightening torque				* see page 5 of the Inductive Sensors Catalog	* see page 5 of the Inductive Sensors Catalog	
leight - Cable Outpu	ıt				145g	
reight - oune outpu						

Inductive AC



Stainless Steel housing LCP active face Short length Operating distance 0.8 ... 15 mm M5, M8, M12, M30 Cable, M8 or M12 connector 2 wires IP67 protection

REDUCTION FACTOR

	ALUMINUM (25°C)	STAINLESS STEEL AISI316L	COPPER	BRASS	
FLUSH	0,30,5	0,70,9	0,20,5	0,40,6	
NON-FLUSH	0,40,6	0,71,05	0,40,5	0,50,7	



M12/18/30 FLUSH models are ATEX certified II 3G EX nA II T6 II 3D EX tD A22 IP67 T85°C

NAMUR



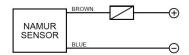




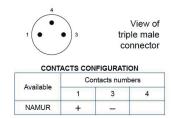


				NAMUR
				FLUSH
				cable
NOMINAL SWITC	HING DISTAN	ICE		0,8 mm
10-30 Vdc	PNP/NPN	4 wires		
10 50 440	NO-NC	4 WIC5	order No.	
10-30 Vdc	PNP	3 wires		
	NO		order No.	
10-30 Vdc	PNP	3 wires		
	NC		order No.	
10-30 Vdc	NPN NO	3 wires	order No.	
10-30 Vdc	NPN	3 wires		
10-30 Vac	NC	3 wires	order No.	
10-30 Vdc	PNP	4 wires		
10-30 Yuc	NO-NC	4 WILES	order No.	
10-30 Vdc	NPN	4 wires		
10-30 Yuc	NO-NC	4 WILES	order No.	
10-30 Vdc	NO-NC	2 wires		
	INO-INC	2 WILES	order No.	
20-250 Vac/Vdc	NO	2 wires		
20 200 ¥dt/ ¥ut	110	2 11103	order No.	
20-250 Vac/Vdc	NC	2 wires		
		2 10103	order No.	
20-250 Vac	NO	2/3 wires		
20 200 140			order No.	
10-30 Vdc	Analog 0-20 mA	3 wires		
			order No.	
NAMUR amplifier	NAMUR	2 wires		IS-05-A20-03
· · · · · · · · · · · · · · · ·			order No.	95B065410
				(10)/20
Nominal Voltage				6+ 12 V DC
Residual Ripple				
Hysteresis				< 10%
Max. Output Current				< 3 mA (metal absent)
Min. Output Current	L			< 1 mA (metal present)
Residual Current				
Voltage Drop Operation Led				
Operation Lea Switching Frequenc	-1/			 2000 Hz
Switching Frequent Start Up Delay	·7			< 10 ms
Repeatability				
Short Circuit Protec	ction			Present (self-resetting)
Electric Protection				Against polarity reversal
				inductive loads
Temperature Limit				(-25 +70 °C)
Protection Degree				IP67
Cable Length				2 m (PVC)
Cable Section				2x 0,15 mm ²
Housing Material				Stainless-Steel
Active face				LCP
Tightening torque				1,5Nm
Weight - Cable Outp	ut			25g

2 wires NAMUR

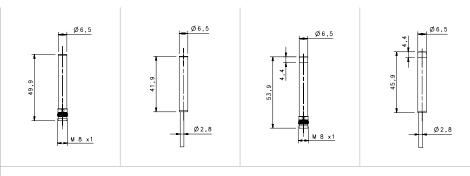


M8 2 wires NAMUR



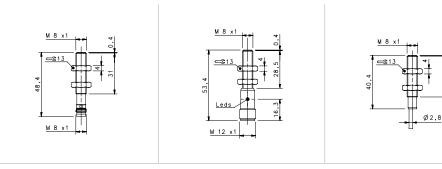
NAMUR M6,5



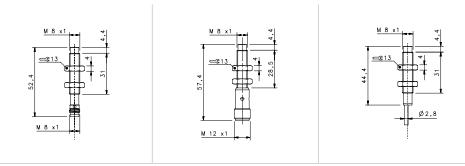


				NAMUR				
				FLU	JSH	NON FLUSH		
				M8 conn	cable	M8 conn	cable	
IOMINAL SWITC	HING DISTAN	ICE		1 mm	1 mm	2 mm	2 mm	
10-30 Vdc	PNP/NPN	4 wires						
10-30 vuc	NO-NC	4 WIIES	order No.					
0-30 Vdc	PNP	2						
U-30 Vac	NO	3 wires	order No.					
0.001/1	PNP	. ·						
0-30 Vdc	NC	3 wires	order No.					
	NPN							
0-30 Vdc	NO	3 wires	order No.					
0.001/1	NPN							
0-30 Vdc	NC	3 wires	order No.					
	PNP							
10-30 Vdc	NO-NC	4 wires	order No.					
	NPN	N (wires						
10-30 Vdc	NO-NC		order No.					
			or don inter					
0-30 Vdc	NO-NC	2 wires	order No.					
			or don inter					
20-250 Vac/Vdc	NO	2 wires	order No.					
			order NO.					
20-250 Vac/Vdc	NC	2 wires	order No.					
			order No.					
20-250 Vac	NO	2/3 wires	order No.					
	A		order No.					
0-30 Vdc	Analog 0-20 mA	3 wires	order No.					
			order No.	 IS-65-A20-S1	IS-65-A20-03	IS-65-C20-S1	IS-65-C20-03	
VAMUR amplifier	NAMUR	2 wires	order No.	95B066310	95B066290	95B066320	95B066300	
			order No.	730000310	730000270	730000320	73000000	
lominal Voltage				7.7 + 9 V DC	7.7 + 9 V DC	7,7 + 9 V DC	7,7 + 9 V DC	
Residual Ripple				<10%	<10%	<10%	< 10%	
				< 10%	< 10%	< 10%	< 10%	
lysteresis								
Max. Output Current				< 3 mA (metal absent)	< 3 mA (metal absent)	< 3 mA (metal absent)	< 3 mA (metal absent)	
Min. Output Current	1			< 1 mA (metal present)	< 1 mA (metal present)	< 1 mA (metal present)	< 1 mA (metal present)	
Residual Current								
Voltage Drop								
Operation Led								
Switching Frequenc	:y			2000 Hz	2000 Hz	2000 Hz	2000 Hz	
Start Up Delay								
Repeatability				< 3%	< 3%	< 3%	< 3%	
Short Circuit Protec	tion			Present (self-resetting)	Present (self-resetting)	Present (self-resetting)	Present (self-resetting	
ectric Protection				Against polarity reversal inductive loads	Against polarity reversal inductive loads	Against polarity reversal inductive loads	Against polarity reversa inductive loads	
emperature Limit				(-25 +60 °C)	(-25 +60 °C)	(-25 +60 °C)	(-25 +60 °C)	
rotection Degree				IP67	IP67	IP67	IP67	
able Length					2 m		2 m	
Cable Section					2x 0,25 mm ²		2 x 0,25 mm ²	
Housing Material				Nickel-plated brass	Nickel-plated brass	Nickel-plated brass	Nickel-plated brass	
Active face				LCP	LCP	LCP	LCP	
Veight – Cable Outpi	ut				80 g		80 g	
Weight - Cable Outpl Weight - Connector (40 g		40 g		



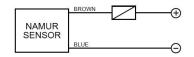


			NAMID				
			M8 conn	M12 conn	cable		
NOMINAL SWITCHING DISTANCE			1 mm	1 mm	1 mm		
PNP/NPN	4 wires						
		order No.					
	3 wires	andan Ma					
		order No.					
	3 wires	order No					
		order No.					
NO	3 wires	order No.					
NPN							
NC	3 wires	order No.					
PNP	1						
NO-NC	4 WIres	order No.					
NPN	(wiroc						
NO-NC	4 WILES	order No.					
NO-NC	2 wires						
	2 11103	order No.					
NO	2 wires						
110	2 Wiles	order No.					
NC	2 wires						
/Vdc NC 2 wires		order No.					
NO 2/3 wires	2/3 wires						
		order No.					
Analog 0-20	3 wires						
mA		order No.					
NAMUR	2 wires				S-08-A20-03		
		order No.	95B066780	95BU6676U	95B066740		
			77.0100	77.0100	7,7 + 9 V DC		
			,		<10%		
					< 10%		
					< 3 mA (metal absent)		
					< 1 mA (metal absent)		
у			2000 Hz	2000 Hz	2000 Hz		
			< 3%	< 3%	< 3%		
tion			Present (self-resetting)	Present (self-resetting)	Present (self-resetting)		
			Against polarity reversal inductive loads	Against polarity reversal inductive loads	Against polarity reversal inductive loads		
					(-25 +60 °C)		
			IP67	IP67	IP67		
					2 m		
					2x 0,25 mm ²		
			Nickel-plated brass	Nickel-plated brass	Nickel-plated brass		
Housing Material Active face			LCP	LCP	LCP		
			LCI				
			* see page 5 of the Inductive Sensors Catalog	* see page 5 of the Inductive Sensors Catalog	* see page 5 of the Inductive Sensors Catalog		
	PNP/NPN NO-NC PNP NC NPN NO NPN NO-NC NPN NO-NC NO-NC NO-NC NO NO NO Analog 0-20 mA NAMUR	PNP/NPN N0-NC4 wiresPNP N03 wiresPNP NC3 wiresNPN NO3 wiresNPN NC3 wiresNPN NO-NC4 wiresNPN NO-NC2 wiresNO-NC2 wiresNO2 wiresNO2 wiresNO2 wiresNO2 wiresNA2 wiresNO2 wiresNO2 wiresNO2 wires	PNP/NPN NO-NC 4 wires	PNP/NPN NO-NC 4 wires order No. order No. PNP NC 3 wires order No. order No. NPN NC 3 wires order No. order No. NPN NC 3 wires order No. order No. NPN NC 3 wires order No. order No. NPN NC-NC 4 wires order No. order No. NO-NC 2 wires order No. order No. NO 2 wires order No. order No. NO 2 wires order No. order No. NO 2 wires order No. order No. NAMUR 2 wires order No. order No. NAMUR 2 wires order No. order	HING DISTANCE 1 mm 1 mm PNP/NPN NO-NC 4 wires order No.		



	NON FLUSH	
M8 conn	M12 conn	cable
2 mm	2 mm	2 mm
IS-08-C20-S1	IS-08-C20-S2	IS-08-C20-03
95B066790	95B066770	95B066750
7,7 + 9 V DC	7,7 + 9 V DC	7,7 + 9 V DC
< 10%	< 10%	< 10%
< 10%	< 10%	< 10%
< 3 mA (metal absent)	< 3 mA (metal absent)	< 3 mA (metal absent)
< 1 mA (metal present)	< 1 mA (metal present)	< 1 mA (metal present)
2000 Hz	 2000 Hz	
2000 HZ	2000 H2	2000 Hz
< 3%	< 3%	< 3%
< 370 Present (self-resetting)	< 3% Present (self-resetting)	< 3% Present (self-resetting)
Against polarity reversal inductive loads	Against polarity reversal inductive loads	Against polarity reversal inductive loads
(-25 +60 °C)	(-25 +60 °C)	(-25 +60 °C)
IP67	(-25 +60 C) IP67	(-25 +60 C) IP67
1F07	IF0/	2 m
		2 m 2 x 0,25 mm ²
 Nickel-plated brass	 Nickel-plated brass	Nickel-plated brass
LCP		LCP
see page 5 of the Inductive Sensors Catalog	* see page 5 of the Inductive Sensors Catalog	* see page 5 of the Inductive Sensors Catalo
see page 5 of the muuclive sensors calalog	see page 5 of the inductive sensors catalog	80 g

2 wires NAMUR



M8 2 wires NAMUR

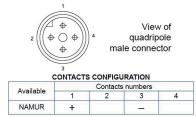


 Available
 Contacts numbers

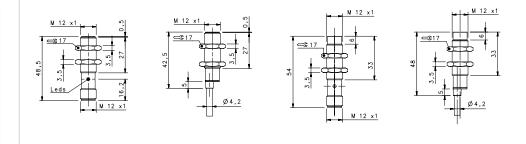
 1
 3
 4

 NAMUR
 +

M12 2 wires NAMUR

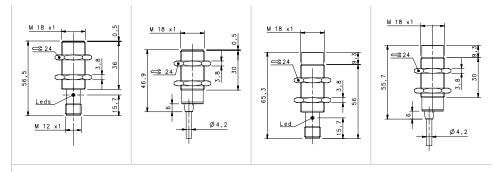






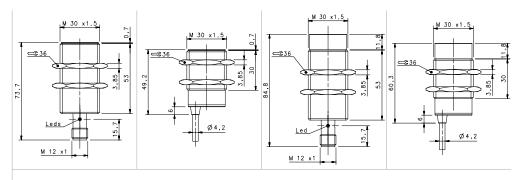
				NAMUR				
				FLU		NON FLUSH		
				M12 conn	cable	M12 conn	cable	
OMINAL SWITC	HING DISTAN	NCE		2 mm	2 mm	4mm	4mm	
10-30 Vdc	PNP/NPN	4 wires						
U-30 Vac	NO-NC	4 wires	order No.					
0.001/1-	PNP	2						
0-30 Vdc	NO	3 wires	order No.					
0-30 Vdc	PNP	2						
U-30 Vac	NC	3 wires	order No.					
0-30 Vdc	NPN	3 wires						
0-30 Vac	NO	5 WILES	order No.					
0-30 Vdc	NPN	3 wires						
0-30 Vac	NC	5 WILES	order No.					
0-30 Vdc	PNP	4 wires						
0-30 vuc	NO-NC	4 WIIES	order No.					
0-30 Vdc	NPN	4 wires						
0-50 Yuc	NO-NC	4 WIIES	order No.					
0-30 Vdc	NO-NC	2 wires						
0-30 Vac	NU-INC	Z WILES	order No.					
0-250 Vac/Vdc	NO	2 wires						
0-230 Vac/ Vuc	NO	2 WIIES	order No.					
0-250 Vac/Vdc	NC	2 wires						
0-250 vac/ vac	NC	2 WIICS	order No.					
0-250 Vac	NO	0 2/3 wires						
0-250 vac	NO	2/3 11/10	order No.					
0-30 Vdc	Analog 0-20	3 wires						
0-50 vuc	mA	5 WIIES	order No.					
IAMUR amplifier	NAMUR	2 wires		IS-12-A20-S2	IS-12-A20-03	IS-12-C20-S2	IS-12-C20-03	
	NAMOR	2 WIICS	order No.	95B064180	95B064160	95B064190	95B064170	
ominal Voltage				7,7 + 9 V DC	7,7 + 9 V DC	7,7 + 9 V DC	7,7 + 9 V DC	
esidual Ripple				< 10%	< 10%	< 10%	< 10%	
ysteresis				< 10%	< 10%	< 10%	< 10%	
lax. Output Current				< 3 mA (metal absent)	< 3 mA (metal absent)	< 3 mA (metal absent)	< 3 mA (metal absent)	
lin. Output Current				< 1 mA (metal present)	< 1 mA (metal present)	< 1 mA (metal present)	< 1 mA (metal present)	
Residual Current								
'oltage Drop								
peration Led								
witching Frequenc	у			2000 Hz	2000 Hz	2000 Hz	2000 Hz	
tart Up Delay								
epeatability				< 3%	< 3%	< 3%	< 3%	
Short Circuit Protec	tion			Present (self-resetting)	Present (self-resetting)	Present (self-resetting)	Present (self-resetting)	
Electric Protection				Against polarity reversal inductive loads	Against polarity reversal inductive loads	Against polarity reversal inductive loads	Against polarity reversa inductive loads	
emperature Limit				(-25 +60 °C)	(-25 +60 °C)	(-25 +60 °C)	(-25 +60 °C)	
rotection Degree				IP67	IP67	IP67	IP67	
able Length					2 m		2 m	
able Section					2 x 0,25 mm^2		2 x 0,25 mm^2	
ousing Material				Nickel-plated brass	Nickel-plated brass	Nickel-plated brass	Nickel-plated brass	
ctive face				LCP	LCP	LCP	LCP	
				* see page 5 of the Inductive	* see page 5 of the Inductive	* see page 5 of the Inductive	* see page 5 of the Inducti	
ïahtenina toraue				Compose Cotolon	Concora Catalan	Sensors Catalog	Sensors Catalog	
ïghtening torque Veight - Cable Outpu	.4			Sensors Catalog	Sensors Catalog 110 g		110 g	





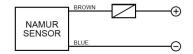
				NAMUR				
				FLL	JSH	NON	FLUSH	
				M12 conn	cable	M12 conn	cable	
IOMINAL SWITC	HING DISTAN	ICE		5mm	5mm	8mm	8mm	
0-30 Vdc	PNP/NPN	4 wires						
10-30 Vac	NO-NC	4 wires	order No.					
0-30 Vdc	PNP	3 wires						
U-30 VUC	NO	5 WILES	order No.					
0-30 Vdc	PNP	3 wires						
0-50 vuc	NC	5 101165	order No.					
0-30 Vdc	NPN	3 wires						
0 00 140	NO	0 11100	order No.					
0-30 Vdc	NPN	3 wires						
0 00 140	NC	0 11100	order No.					
0-30 Vdc	PNP	4 wires						
0 00 140	NO-NC	4 11105	order No.					
0-30 Vdc	NPN	4 wires						
0 00 140	NO-NC		order No.					
0-30 Vdc	NO-NC	2 wires						
0 00 140		2	order No.					
0-250 Vac/Vdc	NO	2 wires						
0 200 100, 100		2	order No.					
0-250 Vac/Vdc	NC	2 wires						
			order No.					
0-250 Vac	NO	2/3 wires						
			order No.					
0-30 Vdc	Analog 0-20	3 wires						
	mA		order No.					
IAMUR amplifier	NAMUR	2 wires		IS-18-A20-S2	IS-18-A20-03	IS-18-C20-S2	IS-18-C20-03	
			order No.	95B064380	95B064360	95B064390	95B064370	
lominal Voltage				7,7 + 9 V DC	7,7 + 9 V DC	7,7 + 9 V DC	7,7 + 9 V DC	
esidual Ripple				< 10%	< 10%	< 10%	< 10%	
ysteresis				< 10%	< 10%	< 10%	< 10%	
lax. Output Current				< 3 mA (metal absent)	< 3 mA (metal absent)	< 3 mA (metal absent)	< 3 mA (metal absent)	
lin. Output Current	1			< 1 mA (metal present)	< 1 mA (metal present)	< 1 mA (metal present)	< 1 mA (metal present)	
esidual Current								
loltage Drop								
peration Led								
witching Frequenc	: y			1000 Hz	1000 Hz	1000 Hz	1000 Hz	
itart Up Delay				< 3%	< 3%	< 3%	< 3%	
Repeatability Short Circuit Protec	ation			< 3% Present (self-resetting)	< 3% Present (self-resetting)	< 3% Present (self-resetting)	< 3% Present (self-resetting)	
lectric Protection				Against polarity reversal inductive loads	Against polarity reversal inductive loads	Against polarity reversal inductive loads	Against polarity reversal inductive loads	
emperature Limit								
emperature Limit rotection Degree				(-25 +60 °C) IP67	(-25 +60 °C) IP67	(-25 +60 °C) IP67	(-25 +60 °C) IP67	
				IP67		IP67		
able Length able Section					2 m 2 x 0,25 mm ²		2 m 2 x 0,25 mm ²	
ousing Material				Nickel-plated brass	Nickel-plated brass LCP	Nickel-plated brass	Nickel-plated brass LCP	
ative free				LUP				
lctive face				* see nade 5 of the Inductive	* see name 5 of the Inductive	* coo nado 5 of the Inductive	* coo nado h ot the Inductiv	
Active face Tightening torque Veight – Cable Outpu				* see page 5 of the Inductive Sensors Catalog	* see page 5 of the Inductive Sensors Catalog	* see page 5 of the Inductive Sensors Catalog	* see page 5 of the Inductiv Sensors Catalog	



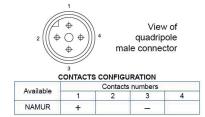


				NAMUR					
				FLU		NON FLUSH			
				M12 conn	cable	M12 conn	cable		
OMINAL SWITC	HING DISTAN	ICE		10mm	10mm	15mm	15mm		
	PNP/NPN								
0-30 Vdc	NO-NC	4 wires	order No.						
0.001/1	PNP	. ·							
0-30 Vdc	NO	3 wires	order No.						
0.201/4-	PNP	2							
0-30 Vdc	NC	3 wires	order No.						
0-30 Vdc	NPN	3 wires							
0-30 vuc	NO	5 WILES	order No.						
0-30 Vdc	NPN	3 wires							
0-30 vuc	NC	5 WILES	order No.						
0-30 Vdc	PNP	4 wires							
0-30 vuc	NO-NC	4 WILES	order No.						
0-30 Vdc	NPN	4 wires							
0-30 Vuc	NO-NC	4 101185	order No.						
0-30 Vdc		2 wiroc							
0-30 Vuc	NO-NC 2 wires	Z WIIES	order No.						
0-250 Vac/Vdc	NO	2 wires							
U-200 Vac/Vuc	NU	Z WIIes	order No.						
0-250 Vac/Vdc	NC	2 wires							
0-230 vac/ vac	NC	2 WIIES	order No.						
0-250 Vac	NO	2/3 wires							
J-230 Vac	NO	2/3 wires	order No.						
0-30 Vdc	Analog 0-20	3 wires							
0-30 vuc	mA	5 WIIES	order No.						
IAMUR amplifier	NAMUR	2 wires		IS-30-A20-S2	IS-30-A20-03	IS-30-C20-S2	IS-30-C20-03		
	NAMON	2 WIIES	order No.	95B064630	95B064610	95B064640	95B064620		
ominal Voltage				7,7 + 9 V DC	7,7 + 9 V DC	7,7 + 9 V DC	7,7 + 9 V DC		
esidual Ripple				< 10%	< 10%	< 10%	< 10%		
ysteresis				< 10%	< 10%	< 10%	< 10%		
lax. Output Current				< 3 mA (metal absent)	< 3 mA (metal absent)	< 3 mA (metal absent)	< 3 mA (metal absent)		
lin. Output Current				< 1 mA (metal present)	< 1 mA (metal present)	< 1 mA (metal present)	< 1 mA (metal present)		
esidual Current									
oltage Drop									
peration Led									
witching Frequenc	y			500 Hz	500 Hz	500 Hz	500 Hz		
tart Up Delay									
epeatability				< 3%	< 3%	< 3%	< 3%		
hort Circuit Protec	tion			Present (self-resetting)	Present (self-resetting)	Present (self-resetting)	Present (self-resetting)		
Electric Protection				Against polarity reversal inductive loads	Against polarity reversal inductive loads	Against polarity reversal inductive loads	Against polarity reversal inductive loads		
	Temperature Limit			ure Limit		(-25 +60 °C)	(-25 +60 °C)	(-25 +60 °C)	(-25 +60 °C)
					IP67	IP67	IP67		
emperature Limit				IP67	IF07	11 07			
emperature Limit rotection Degree				IP67	2 m		2 m		
emperature Limit rotection Degree able Length							2 m 2 x 0,25 mm ²		
emperature Limit Protection Degree Table Length Table Section					2 m				
emperature Limit Protection Degree Cable Length Cable Section Iousing Material				 Nickel-plated brass LCP	2 m 2 x 0,25 mm ² Nickel-plated brass LCP	 Nickel-plated brass LCP	2 x 0,25 mm ² Nickel-plated brass LCP		
				 Nickel-plated brass	2 m 2 x 0,25 mm ² Nickel-plated brass	 Nickel-plated brass	2 x 0,25 mm² Nickel-plated brass		

2 wires NAMUR



M12 2 wires NAMUR



PBT (resin) or Nickel-plated Brass housing Operating distance 1.5 ... 15 mm 40x40 mm or 8x8 mm dimension Cable, M8 connector or Terminal Block 2 or 3 wires PNP, PNP/NPN, NO, NC, NO/NC IP67

 REDUCTION FACTOR

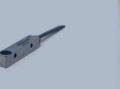
 ALUMINUM (25°C)
 STAINLESS STEEL AISI316L
 COPPER
 BRASS

 Average red. Fact.
 0,45
 0,85
 0,4
 0,5



*IS-88 models only

SQUARE



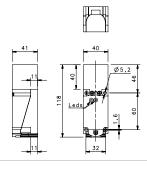




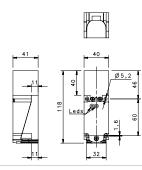


SQUARE 40X40





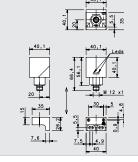
				40X40		
				FLUSH		
				Terminal Block	Terminal Block	
NOMINAL SWITC		ICE		15 mm	30mm	
NUMINAL SWITC						
10-30 Vdc	PNP/NPN N0-NC	4 wires	order No.			
			order No.			
10-30 Vdc	PNP NO	3 wires	order No.			
			order No.			
10-30 Vdc	PNP NC	3 wires	order No.			
			order No.			
10-30 Vdc	NPN NO	3 wires	order No.			
			order No.			
10-30 Vdc	NPN NC	3 wires	order No.			
			order No.	 IS-40-W5-S3		
10-30 Vdc	PNP NO-NC	4 wires	andan Na		IS-40-Y5-S3	
			order No.	95B065240	958065280	
10-30 Vdc	NPN NO-NC	4 wires	N -	IS-40-W6-S3	IS-40-Y6-S3	
	NU-NC		order No.	95B065230	95B065270	
I 0-30 Vdc	NO-NC	2 wires				
			order No.			
20-250 Vac/Vdc	NO	2 wires				
			order No.			
20-250 Vac/Vdc	NC	2 wires				
			order No.			
20-250 Vac	NO	2/3 wires				
			order No.			
10-30 Vdc	Analog 0-20	3 wires				
	mA		order No.			
NAMUR amplifier	NAMUR	2 wires				
			order No.			
Nominal Voltage				10-30 Vdc	10-30 Vdc	
Nominal Voltage						
Residual Ripple				< 10%	<10%	
lysteresis				< 15% (Sr)	< 15% (Sr)	
Max. Output Current				200mA	200mA	
Min. Output Current	1					
Residual Current				< 0,01 mA	< 0,01 mA	
Voltage Drop				< 1,5V	< 1,5V	
Operation Led				YES	YES	
Switching Frequence	;y			100 Hz	100 Hz	
Start Up Delay						
Repeatability				< 1.0% (Sr)	< 1.0% (Sr)	
Short Circuit Protec	ction			Present (self-resetting)	Present (self-resetting)	
Electric Protection				Against polarity reversal inductive loads	Against polarity reversal inductive loads	
Temperature Limit				(-25+75C)	(-25 +75 °C)	
Protection Degree				IP67	IP67	
Cable Length						
Cable Section						
Housing Material				PBT (RESIN)	PBT (RESIN)	
Weight - Cable Outp	ut					
Weight - Connector				262g	262g	

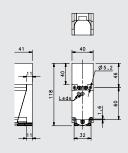


40X40	VAC/VDC
FLUSH	NON FLUSH
Terminal Block	Terminal Block
15 mm	30mm
 IS-40-W7-S3	 IS-40-Y7-S3
95B065250	95B065290
IS-40-W8-S3	IS-40-Y8-S3
95B065260	95B065300
20-250 VAC/Vdc, 50-60 Hz	20-250 VAC/Vdc, 50-60 Hz
< 10%	< 10%
< 15% (Sr)	< 15% (Sr)
200mA	200mA
< 2,5mA	< 2,5mA
< 10Vac ; < 8Vdc	< 10Vac ; < 8Vdc
YES	YES
25 Hz AC; 40 Hz DC	25 Hz AC; 40 Hz DC
< 1.0% (Sr)	< 1.0% (Sr)
Present (self-resetting)	Present (self-resetting)
Against polarity reversal inductive loads	Against polarity reversal inductive loads
(-25 +70 °C)	(-25 +70 °C)
IP67	IP67
PBT (RESIN)	PBT (RESIN)
262g	262g

SQUARE 40X40

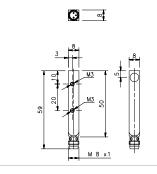


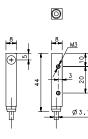




				SHORT	ANALOG OUTPUT	
				FLUSH	NON FLUSH	
				M12 conn.	Terminal Block	
OMINAL SWITC	HING DISTAN	ICE		15mm	7-20mm	
0-30 Vdc	PNP/NPN	4 wires				
0-30 Vac	NO-NC	4 wires	order No.			
0-30 Vdc	PNP	3 wires				
0-30 vuc	NO	5 WIIes	order No.			
0-30 Vdc	PNP	3 wires				
0-50 vuc	NC	5 WIIES	order No.			
0-30 Vdc	NPN	3 wires				
0-50 vuc	NO	5 WIIES	order No.			
0-30 Vdc	NPN	3 wires				
5 50 ¥4C	NC	5 11105	order No.			
0-30 Vdc	PNP	4 wires		IS-40-X5-S2		
5 50 ¥uc	NO-NC	4 11103	order No.	95B065320		
0-30 Vdc	NPN	4 wires		IS-40-X6-S2		
5 JU VUC	NO-NC	4 11165	order No.	95B065310		
0-30 Vdc	NO-NC	2 wires				
0 00 100	110-110	2 11165	order No.			
0-250 Vac/Vdc	NO	2 wires				
0-230 vac/vuc	NO	2 wires	order No.			
0-250 Vac/Vdc	NC	2 wires				
0-230 vac/ vac	NC		order No.			
0-250 Vac	NO	2/3 wires				
0-230 Vac	NO	2/5 111125	order No.			
0-30 Vdc	Analog 0-20	3 wires			IS-40-C11-S3	
0-30 vuc	mA	5 WILES	order No.		95B065330	
IAMUR amplifier	NAMUR	2 wires				
	NAMON	2 WIICS	order No.			
ominal Voltage				10-30 Vdc	18-30 Vdc	
esidual Ripple				< 10%	< 10%	
lysteresis				< 15% (Sr)	< 10% (Sr)	
lax. Output Current				200mA	0-20mA/200 Ω Max.	
lin. Output Current						
esidual Current				< 0,01mA		
oltage Drop				< 1,5V		
peration Led				YES		
witching Frequenc	у			100 Hz	100 Hz	
tart Up Delay						
epeatability				< 1.0% (Sr)	0,02 mm	
hort Circuit Protec	tion			Present (self-resetting)	Present (self-resetting)	
lectric Protection				Against polarity reversal inductive loads	Against polarity reversal inductive loads	
emperature Limit				(-25 +70 °C)	(-25 +70 °C)	
rotection Degree				IP67	IP67	
able Length						
able Section						
lousing Material				PBT (RESIN)	PBT (RESIN)	
Veight - Cable Outpu	ıt					
Veight – Connector (170 g	242g	







SHORT

				M8 conn	cable
NOMINAL SWITCHING DISTANCE				1,5mm	1,5mm
PNP/NPN /					
0-30 Vdc	NO-NC	4 wires	order No.		
0.001/1	PNP			IS-88-Q1-S1	IS-88-Q1-03
0-30 Vdc	NO	3 wires	order No.	95B060840	95B060830
0.001/1	PNP				
0-30 Vdc	NC	3 wires	order No.		
0.001/1	NPN	2			
0-30 Vdc	NO	3 wires	order No.		
0-30 Vdc	NPN	2			
U-30 Vac	NC	3 wires	order No.		
0.201/4-	PNP	1			
0-30 Vdc	NO-NC	4 wires	order No.		
0.20.Vda	NPN	(
0-30 Vdc	NO-NC	4 wires	order No.		
0.20.1/da		2			
0-30 Vdc	NO-NC	2 wires	order No.		
0-250 Vac/Vdc	NO	2			
20-250 Vac/Vac	NO	2 wires	order No.		
20-250 Vac/Vdc	NC	2 wires			
U-230 Vac/Vuc	INC	2 wires	order No.		
0.250 Vac	250 Vac NO	2/3 wires			
.U-230 Vac			order No.		
0-30 Vdc	Analog 0-20	3 wires			
0-30 vuc	mA	5 WILES	order No.		
AMUR amplifier	NAMUR	2 wires			
AMOR ampuner	NAMOR		order No.		
lominal Voltage				10-30 Vdc	10-30 Vdc
tesidual Ripple				< 10%	< 10%
lysteresis				< 10% (Sr)	< 10% (Sr)
lax. Output Current				200mA	200mA
lin. Output Curren	t				
Residual Current					
/oltage Drop				< 1,2V	< 1,2V
peration Led				Yellow	Yellow
witching Frequence	:y			500 Hz	500 Hz
Start Up Delay				75 ms	75 ms
Repeatability				< 3%	< 3%
Short Circuit Prote	ction			Present (self-resetting)	Present (self-resetting)
lectric Protection				Against polarity reversal inductive loads	Against polarity reversal inductive loads
emperature Limit				(-25 +70 °C)	(-25 +70 °C)
Protection Degree				IP67	IP67
Cable Length					2 m
Cable Section					3x0,14mm ²
				nickel-plated brass	nickel-plated brass
Housing Material Weight - Cable Output					· · · Frances

Capacitive sensors are noncontact proximity devices suitable for detecting metals, nonmetals, solids, and liquids. The oscillating circuit is influenced by variations in capacity. When any material comes close to the active face, the capacity of the sensor varies and, if the threshold distance is passed, the sensor switches the state of its outputs. Like for the inductive sensors, the operating distance is calculated using a square piece of Fe37, with 1 mm thickness. The variation of the capacitance is due to the conductivity or non-conductivity of the different materials. Conductive materials change the capacitance of the sensor, while non-conductive materials change the dielectric constant of the reference capacitor; the sensor feel the variation of the generated electric field by its active sensing face.

Datalogic offers a basic range for the Capacitive sensors, M18 and M30 tubular housing, in Direct or Alternated Current, in nickel-plated brass or plastic housing, with timer and sensitivity adjustment trimmer, equipped with the industrial standard outputs, suitable for the most common applications of detection and in the filling level control of the materials.

Nickel plated brass M18, M30 Basic series (NO-NC) Capacitive A.C. series (plastic housing) Multi-voltage series (SPDT relay) Operating distance: 5...25 mm Cable or M8 connector 2,4,6 wires PNP or NPN, N.O. and N.C. outputs, SPDT relay Delay ON or delay OFF model IP67 protection

MATERIALS	REDUCTION FACTOR
Metal (Fe37)	1xSn
Water	1xSn
P.V.C.	0.5xSn
Glass	0.5xSn
Wood	0.4xSn



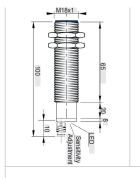
CAPACITIVE BASIC, CAPACITIVE A.C., MULTIVOLTAGE

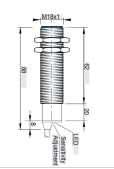




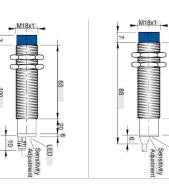
CAPACITIVE BASIC M18







CTANDADD



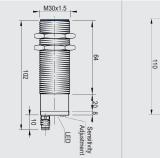
E

				STANDARD			
				FLU	FLUSH		LUSH
				M8 conn	cable	M8 conn	cable
NOMINAL SWITC	HING DISTAN	ICE		15 mm	15 mm	110 mm	110 mm
10-30 Vdc	PNP/NPN N0-NC	4 wires	order No.				
	PNP		order No.				
10-30 Vdc	NO	3 wires	order No.				
10-30 Vdc	PNP	3 wires					
	NC		order No.				
10-30 Vdc	NPN	3 wires					
10-50 vuc	NO	5 WIIES	order No.				
10-30 Vdc	NPN	3 wires					
10-30 Vuc	NC		order No.				
10-30 Vdc	PNP	4 wires		CS08K2	CS08	CS14K2	CS14
10-30 Vac	NO-NC		order No.	958901040	958901020	958901270	958901120
10.001/1	NPN	1		CS07K2	CS07	CS13K2	CS13
10-30 Vdc	NO-NC	4 wires	order No.	958901000	958901160	958901250	958901100
10-30 Vdc	NO-NC	2					
10-30 Vac	NU-INC	2 wires	order No.				
20-250 Vac/Vdc	NO	2 wires					
20-250 vac/vdc	NO	2 wires	order No.				
20-250 Vac/Vdc	NC	2 wires					
20-250 vac/vdc	INC.	2 wires	order No.				
20-250 Vac	NO	2/3 wires					
20-230 Vac	NU	Z/ 3 WILES	order No.				
10-30 Vdc	Analog 0-20	3 wires					
10-30 VUC	mA	5 WILES	order No.				
NAMUR amplifier	NAMUR	2 wires					
NAMOR amplifier	NAMOR	z wires	order No.				

Nominal Voltage	12-30Vdc(-15/10%)	12-30Vdc(-15/10%)	12-30Vdc(-15/10%)	12-30Vdc(-15/10%)
Residual Ripple	<10%	<10%	<10%	<10%
Hysteresis	depends on the sensing distance			
Max. Output Current	200 mA	200 mA	200 mA	200 mA
Residual Current	< 10 mA	< 10 mA	< 10 mA	< 10 mA
Voltage Drop	< 1,8 V (I=100 m A)	< 1,8 V (I=100 m A)	< 1,8 V (l=100 m A)	< 1,8 V (I=100 m A)
Setting	sensitivity adjustment trimmer	sensitivity adjustment trimmer	sensitivity adjustment trimmer	sensitivity adjustment trimmer
Operation Led	Yellow	Yellow	Yellow	Yellow
Switching Frequency	10 Hz	10 Hz	10 Hz	10 Hz
Start Up Delay	< 100 ms	< 100 ms	< 100 ms	< 100 ms
Repeatability	≤ 5%	≤ 5%	≤ 5%	≤ 5%
Short Circuit Protection	Present(self-resetting)	Present(self-resetting)	Present(self-resetting)	Present(self-resetting)
Electric Protections	Against polarity	Against polarity	Against polarity	Against polarity
Electric Protections	reversal inductive loads	reversal inductive loads	reversal inductive loads	reversal inductive loads
Temperature Limits	- 25 +70 C			
Protection Degree	IP67	IP67	IP67	IP67
Cable Length		2 m		2 m
Cable Section		4x 0,25 mm^2		4x 0,25 mm^2
Housing Material	Nickel-plated brass	Nickel-plated brass	Nickel-plated brass	Nickel-plated brass
Weight - Cable Output		160 g		160 g
Weight - Connector Output	120 g		120 g	

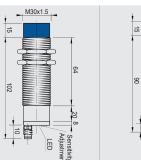
CAPACITIVE BASIC M30

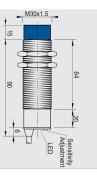






STANDADD



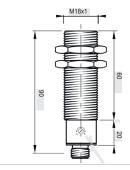


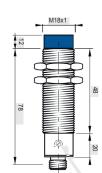
				STANDARD				
				FLU	JSH	NON	FLUSH	
				M8 conn	cable	M8 conn	cable	
NOMINAL SWITC	HING DISTAN	ICE		115 mm	115 mm	125 mm	125 mm	
10-30 Vdc	PNP/NPN NO-NC	4 wires						
			order No.					
10-30 Vdc	PNP NO	3 wires	order No.					
10-30 Vdc	PNP	3 wires						
10 50 440	NC	5 11105	order No.					
10-30 Vdc	NPN	3 wires						
10-30 Vac	NO	5 WILES	order No.					
10-30 Vdc	NPN	3 wires						
10-30 Vac	NC		order No.					
10-30 Vdc	PNP	4 wires		CS10K2	CS10	CS16K2	CS16	
10-30 Vac	NO-NC		order No.	958901080	958901060	958901330	958901140	
10.001/1	NPN	(ine e		CS09K2	CS09	CS15K2	CS15	
10-30 Vdc	NO-NC	4 wires	order No.	958901230	958901180	958901300	958901200	
10-30 Vdc	NO-NC	2 wires						
10-30 Vac	INU-INC		order No.					
20-250 Vac/Vdc	NO	2 wires						
20-250 Vac/Vac	NO	z wires	order No.					
20-250 Vac/Vdc	NC	2 wires						
20-250 Vac/ Vac	NC	z wires	order No.					
20-250 Vac	NO	2/3 wires						
20-200 Vac	INU	Z/3 WIRES	order No.					
10-30 Vdc	Analog 0-20	3 wires						
10-30 Vuc	mA	5 WILES	order No.					
		2						
NAMUR amplifier	NAMUR	2 wires	order No.					

Nominal Voltage	12-30Vdc(-15/10%)	12-30Vdc(-15/10%)	12-30Vdc(-15/10%)	12-30Vdc(-15/10%)
Residual Ripple	<10%	<10%	<10%	<10%
Hysteresis	depends on the sensing distance			
Max. Output Current	200 mA	200 mA	200 mA	200 mA
Residual Current	< 10 mA	< 10 mA	< 10 mA	< 10 mA
Voltage Drop	< 1,8 V (I=100 m A)			
Setting	sensitivity adjustment trimmer	sensitivity adjustment trimmer	sensitivity adjustment trimmer	sensitivity adjustment trimmer
Operation Led	Yellow	Yellow	Yellow	Yellow
Switching Frequency	10 Hz	10 Hz	10 Hz	10 Hz
Start Up Delay	< 100 ms	< 100 ms	< 100 ms	< 100 ms
Repeatability	≤ 5%	≤ 5%	≤ 5%	≤ 5%
Short Circuit Protection	Present(self-resetting)	Present(self-resetting)	Present(self-resetting)	Present(self-resetting)
Electric Protections	Against polarity	Against polarity	Against polarity	Against polarity
Electric Protections	reversal inductive loads	reversal inductive loads	reversal inductive loads	reversal inductive loads
Temperature Limits	- 25 +70 C			
Protection Degree	IP67	IP67	IP67	IP67
Cable Length		2 m		2 m
Cable Section		4x 0,25 mm^2		4x 0,25 mm^2
Housing Material	Nickel-plated brass	Nickel-plated brass	Nickel-plated brass	Nickel-plated brass
Weight - Cable Output		250 g		250 g
Weight - Connector Output	210 g		210 g	

CAPACITIVE A.C. M18



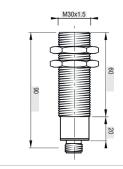


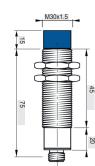


				STAN	IDARD
				FLUSH	NON FLUSH
				M12 conn	M12 conn
OMINAL SWITC	HING DISTAN	ICE		28 mm	215 mm
	PNP/NPN				
0-30 Vdc	NO-NC	4 wires	order No.		
0-30 Vdc	PNP	2			
U-30 Vac	NO	3 wires	order No.		
0-30 Vdc	PNP	3 wires			
-30 Vuc	NC	5 WIIes	order No.		
)-30 Vdc	NPN	3 wires			
5 50 440	NO	5 10105	order No.		
)-30 Vdc	NPN	3 wires			
	NC		order No.		
)-30 Vdc	PNP	4 wires			
	NO-NC		order No.		
0-30 Vdc	NPN	4 wires			
	NO-NC		order No.		
0-30 Vdc	NO-NC	2 wires	and a M		
			order No.		
20-250 Vac/Vdc NO	NO	2 wires	N -	CSP40K4	CSP41K4
			order No.	958901380	958901390
)-250 Vac/Vdc	NC	2 wires	order No.		
			order No.		
0-250 Vac NO		2/3 wires	order No.		
	Augle 20		order No.		
0-30 Vdc	Analog 0-20 mA	3 wires	order No.		
			order No.		
AMUR amplifier	NAMUR	2 wires	order No.		
ominal Voltage				20-250 Vac (-15/10%)-5A source current	20-250 Vac (-15/10%)-5A source current
esidual Ripple				<10%	<10%
ysteresis				< 15%	< 15%
lax. Output Current				300 mA	300 mA
lin. Output Current				2,5 mA	2,5 mA
esidual Current				< 2,5 mA	< 2,5 mA
etting				sensitivity adjustment trimmer	sensitivity adjustment trimmer
peration Led				Yellow	Yellow
witching Frequenc	у			25 Hz	25 Hz
tart Up Delay					
epeatability				< 5%	< 5%
hort Circuit Protec	tion			Present(self-resetting)	Present(self-resetting)
Electric Protection			Against polarity reversal inductive loads	Against polarity reversal inductive loads	
Temperature Limit				- 25 +70 C	- 25 +70 C
				IP67	IP67
rotection Degree					
rotection Degree able Length					
rotection Degree able Length able Section lousing Material				Plastic (PBT)	Plastic (PBT)

CAPACITIVE A.C. M30







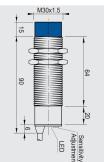
				STAN	DARD
				FLUSH	NON FLUSH
				M12 conn	M12 conn
IOMINAL SWITC	HING DISTAN	NCE		220 mm	230 mm
10-30 Vdc	PNP/NPN	4 wires			
TU-30 Vac	NO-NC	4 wires	order No.		
10-30 Vdc	PNP	3 wires			
10-30 vac	NO	5 WILES	order No.		
10-30 Vdc	PNP	3 wires			
10 50 440	NC	5 WIIC5	order No.		
10-30 Vdc	NPN	3 wires			
10 00 140	NO	0 11100	order No.		
10-30 Vdc	NPN	3 wires			
	NC		order No.		
10-30 Vdc	PNP	4 wires			
	NO-NC		order No.		
10-30 Vdc	NPN	4 wires			
	NO-NC		order No.		
10-30 Vdc	NO-NC	2 wires			
			order No.		
20-250 Vac/Vdc	NO	2 wires		CSP50K4	CSP51K4
			order No.	958901400	958901410
20-250 Vac/Vdc	NC	2 wires			
			order No.		
20-250 Vac	NO	2/3 wires	and a Nia		
			order No.		
10-30 Vdc	Analog 0-20 mA	3 wires	andan Ma		
	IIIA		order No.		
NAMUR amplifier	NAMUR	2 wires	order No.		
			order No.		

Nominal Voltage	20-250 Vac (-15/10%)-5A source current	20-250 Vac (-15/10%)-5A source current
Residual Ripple	<10%	<10%
Hysteresis	< 15%	< 15%
Max. Output Current	300 mA	300 mA
Min. Output Current	2,5 mA	2,5 mA
Residual Current	< 2,5 mA	< 2,5 mA
Setting	sensitivity adjustment trimmer	sensitivity adjustment trimmer
Operation Led	Yellow	Yellow
Switching Frequency	25 Hz	25 Hz
Start Up Delay		
Repeatability	< 5%	< 5%
Short Circuit Protection	Present(self-resetting)	Present(self-resetting)
Electric Protection	Against polarity reversal inductive loads	Against polarity reversal inductive loads
Temperature Limit	- 25 +70 C	- 25 +70 C
Protection Degree	IP67	IP67
Cable Length		
Cable Section		
Housing Material	Plastic (PBT)	Plastic (PBT)
Weight - Cable Output		
Weight - Connector Output	200 g	200 g

CAPACITIVE MULTIVOLTAGE M30

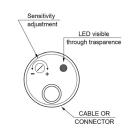






				STANDARD (TIMER TRIMMER)			
				FLUSH	NON FLUSH		
				M12 conn	M12 conn		
NOMINAL SWITCH	IING DISTAN	Œ		20 mm	30 mm		
	PNP/NPN						
10-30 Vdc	NO-NC	4 wires	order No.				
40.00.14-	PNP	2					
10-30 Vdc	NO	3 wires	order No.				
10-30 Vdc	PNP	3 wires					
10-30 Vuc	NC	5 WILES	order No.				
10-30 Vdc	NPN	3 wires					
	NO	5 WIICS	order No.				
10-30 Vdc	NPN	3 wires					
	NC	5 11105	order No.				
10-30 Vdc	PNP	4 wires					
	NO-NC		order No.				
10-30 Vdc	NPN	4 wires					
	NO-NC		order No.				
10-30 Vdc	NO-NC	2 wires					
			order No.				
20-250 Vac/Vdc	NO	2 wires					
			order No.				
18230 VAC/DC	0 VAC/DC relay SPDT			CS31	C532		
			order No.	958901150	958901220		
18230 Vac/dc	relay SPDT (delay ON)	6 wires	and an Ma	CS32TD5	CS31TD5		
			order No.	958901360	958901350		
18230 VAC/DC	relay SPDT (delay OFF)	6 wires	andan Na	CS32TE5	CS31TE5		
	(uelay OFF)		order No.	958901370	958901210		
NAMUR amplifier	NAMUR	2 wires	order No.				
			order No.				
Nominal Voltage				18-230Vac/dc (-15/10%)	18-230Vac/dc (-15/10%)		
Residual Ripple				<10%	<10%		
Hysteresis				<10%	<10%		
Max. Output Currei	nt			3A 30 Vac- 1A 220 Vac (90 W, 360 VA)	3A 30 Vac- 1A 220 Vac (90 W, 360 VA)		
Absorption				2,5 VA	2,5 VA		
Residual Current							
Setting				sensitivity and time adj. trimmer	sensitivity and time adj. trimmer		
Operation Led				Yellow	Yellow		
Switching Frequer	ncy			10 Hz	10 Hz		
Start Up Delay				<300 ms	<300 ms		
Repeatability				<5%	<5%		
Short Circuit Prote	ection			Present (self-resetting)	Present (self-resetting)		
Electric Protection	I			Against polarity reversal inductive loads	Against polarity reversal inductive loads		
Temperature Limit				- 25 +70 C	- 25 +70 C		
Protection Degree				IP65	IP65		
Cable Length				2 m	2 m		
Cable Section				6x0,30 mm ²	6x0,30 mm ²		
Housing Material				Nickel-plated brass	Nickel-plated brass		
Weight - Cable Out	put			250 g	250 g		
Weight - Connecto					8		

CAPACITIVE SETTINGS & CONNECTIONS



BACK VIEW

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TIME ADJUST.

SENSITIVITY ADJUS

Sensitivity adjustment

The sensitivity adjustment must be done when the sensor is installed in a definite and steady position. The regulation must be done in a position half way between minimum and maximum, because, being air dielectric, a strong humidity variation could cause, if the regulation is very light, nuisance tripping. The sensing distance of the sensor depends on the materials to detect, on its dimension and conductivity. The distance could change according to temperature variations.

Timer adjustment

The timer trimmer allows to set a delay, on the activation (delay ON) or in the de-activation of the output, depends on the model, after the detection of the object. The output will remain active (or inactive) proportionally to the setting point of the screw, starting from 1 second up to 5 minutes.

4 wires NO-NC Vdc model

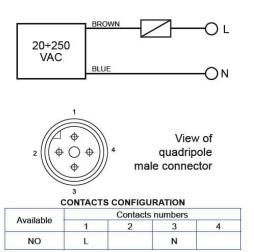
M8 4-pole NO-NC models

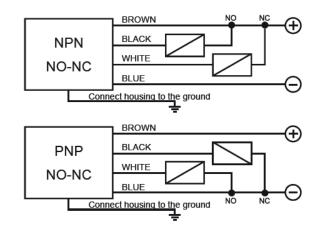


CONTACTS CONFIGURATION

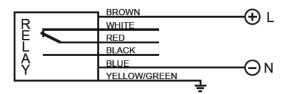
0.4.4	Contacts numbers				
Output	1	2	3	4	
NPN/PNP NO+NC	+	NC	_	NO	

2 wires Vac models





6 wires Mulivoltage models



2, 3, 4 wires M12, M8 connector Axial or radial 90° Shielded or unshielded Double key A.C. cable 3, 5, 7, 10, 15, 25m cable



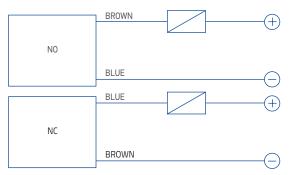
CABLES, CONNECTORS & ACCESSORIES



CABLES, CONNECTORS & ACCESSORIES

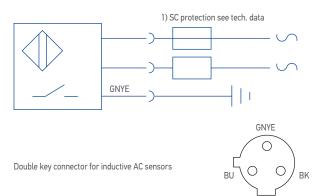
2 WIRES SENSORS

2 Wires No-Nc

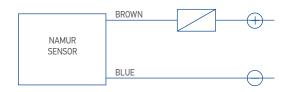


WARNING: The load can be indifferently connected in series to the blue wire or to the brown wire to simulate NPN or PNP functionning logic.

Inductive Ac



Namur



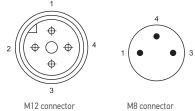


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CONTACTS CONFIGURATION							
ailable	Contacts numbers						
	1	2	3	4			
)	+		-				
	-		+				
	-		+				

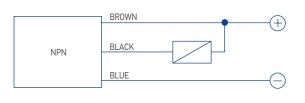


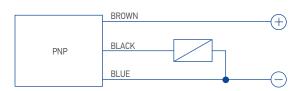
M8 connector

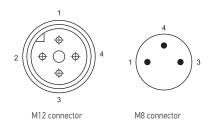
CONTACTS CONFIGURATION						
Available	Contacts numbers					
	1	2	3	4		
NAMUR	+		-			

3 WIRES SENSORS

3 Wires Pnp Or Npn, No Or Nc



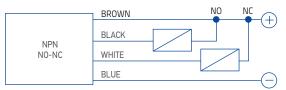


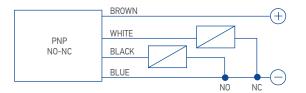


CONTACTS CONFIGURATION						
Available	Contacts numb	Contacts numbers				
	1	2	3	4		
(NO or NC)	+		-	NO/NC		

4 WIRES SENSORS

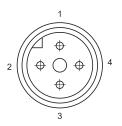
4 Wires (No+Nc)





4 Wires (Pnp/Npn, No/Nc)

N 1		
	BROWN)
NPN	WHITE	
NO	BLACK	
	BLUE	2
	BLUE	5
NPN	WHITE	2
NC	BLACK	
	BROWN	-)
	BROWN	2
PNP	WHITE	
NO	BLACK	
	BLUE	2
	BLUE	5
PNP	WHITE	2
NC	BLACK	
	BROWN	2
L	• •)



CONTACTS CONFIGURATION						
Outeut	Contacts numbers					
Output	1	2	3	4		
NO + NC	+	NC	-	NO		

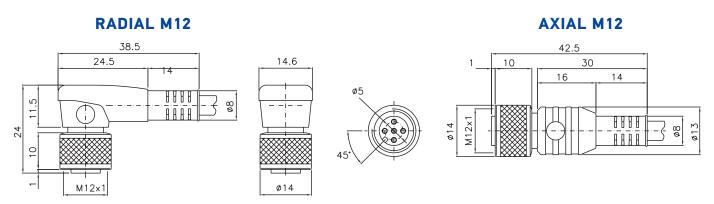
CONTACTS CONFIGURATION					
Outerut	Contacts	numbers			
Output	1	2	3	4	
NPN NO	+	NO	-	-	
NPN NC	-	NC	+	-	
PNP N0	+	+	-	NO	
PNP NC	-	+	+	NC	

CABLES, CONNECTORS & ACCESSORIES

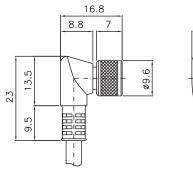
CONNECTOR & DIRECTION	WIRES	STYLE	CABLE LENGHT	MODEL	ORDER No.
			M8 3 m	CS-B1-01-G-03	95A251490
	3	Grey, P.V.C.	5 m	CS-B1-01-G-05	95A251470
M8 Connector (Axial)					
(May		P.U.R.	2 m 5 m	CS-B1-01-R-02 CS-B1-01-R-05	95A251580
			3 m		95A251600
		Grey, P.V.C.	5 m	CS-B2-01-G-03	95A251500
M8 Connector (Radial 90°)	3 -			CS-B2-01-G-05	95A251520
(Kadial 90.)		P.U.R.	2 m	CS-B2-01-R-02	95A251590
			5 m	CS-B2-01-R-05	95A251610
			3 m	CS-B1-02-G-03	95A251420
		Grey, P.V.C.	5 m	CS-B1-02-G-05	95A251430
			7 m	CS-B1-02-G-07	95A251440
M8 Connector (Axial)	4		10 m	CS-B1-02-G-10	95A251480
(AXIAL)		P.U.R.	2 m	CS-B1-02-R-02	95A251620
	-		5 m	CS-B1-02-R-05	95A251640
		OIL resistant (CEI 2034-01)	5 m	CS-B1-02-0-05	95A251730
		(CEI 2034-01)	10 m	CS-B1-02-0-10	95A251100
			3 m	CS-B2-02-G-03	95A251450
		Grey, PVC	5 m	CS-B2-02-G-05	95A251460
			7 m	CS-B2-02-G-07	95A251470
M8 Connector	4		10 m	CS-B2-02-G-10	95A251530
(Radial 90°)		P.U.R.	2 m	CS-B2-02-R-02	95A251630
	-		5 m	CS-B2-02-R-05	95A251650
		OIL resistant	5 m	CS-B2-02-0-05	95A251720
		(CEI 2034-01)	10 m	CS-B2-02-0-10	95A251110
			M12		
			3 m	CS-A1-01-G-03	95A251290
M12 Connector	3	Grey, P.V.C.	5 m	CS-A1-01-G-05	95A251300
(Axial)		,	7 m	CS-A1-01-G-07	95A251320
			10 m	CS-A1-01-G-10	95A251340
			3 m	CS-A2-01-G-03	95A251200
		Grey, P.V.C.	5 m	CS-A2-01-G-05	95A251210
M12 Connector),	7 m	CS-A2-01-G-07	95A251220
(Radial 90°)	3		10 m	CS-A2-01-G-10	95A251230
		OIL registent	3 m	CS-A2-01-0-03	95A251660
		OIL resistant (CEI 2034-01)	5 m	CS-A2-01-0-05	95A251670
			10 m	CS-A2-01-0-10	95A251680
M12 Connector with LED			5 m	CS-A2-11-G-05	95A251310
(for PNP N.O. sensors) (Radial 90°)	3	Grey, P.V.C.	10 m	CS-A2-11-G-10	95A251330
Shielded M12 Connector (Axial)	3	Grey, P.V.C.	10 m		
Intelded MTZ CONTECTOR (AXIAL)	3	orey, P.v.c.		CV-A1-21-G-10	95ACC2060
12 Connector Axial Double Keyd	2	Overse DVC	2 m	CS-A1-21-R-02	95ACC8000
+ PE for AC inductive	3	Orange, P.V.C.	3 m 5 m	CS-A1-21-R-03	95ACC8010
				CS-A1-21-R-05	95ACC8020
			3 m	CS-A1-02-G-03	95A251380
		Grey, P.V.C.	5 m	CS-A1-02-G-05	95A251270
M12 Connector (Axial)	4		7 m	CS-A1-02-G-07	95A251280
	-		10 m	CS-A1-02-G-10	95A251390
		P.U.R.	2 m	CS-A1-02-R-02	95A251540
			5 m	CS-A1-02-R-05	95A251560
			3 m	CS-A2-02-G-03	95A251360
		Grey, P.V.C.	5 m	CS-A2-02-G-05	95A251240
			7 m	CS-A2-02-G-07	95A251245
M12 Connector	4		10 m	CS-A2-02-G-10	95A251260
(Radial 90°)	-	P.U.R.	2 m	CS-A2-02-R-02	95A251550
	-	1.0.14.	5 m	CS-A2-02-R-05	95A251570
		OIL resistant	5 m	CS-A2-02-0-05	95A251690
		(CEI 2034-01)	10 m	CS-A2-02-0-10	95A251700
M12 Connector with LED			3 m	CS-A2-12-G-03	95A251400
(for PNP N.O. sensors)	4	Grey, P.V.C.	5 m	CS-A2-12-G-05	95A251350
(Radial 90°)					

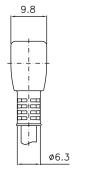
			3 m	CV-A1-22-B-03	95ACC1480
			5 m	CV-A1-22-B-05	95ACC1490
Shielded M12 Connector (Axial)	4	Black, P.V.C.	10 m	CV-A1-22-B-10	95ACC1500
			15 m	CV-A1-22-B-15	95ACC2070
			25 m	CV-A1-22-B-25	95ACC2090
			3 m	CV-A2-22-B-03	95ACC1540
Shielded M12 Connector (Radial 90°)	4	Black, P.V.C.	5 m	CV-A2-22-B-05	95ACC1550
			10 m	CV-A2-22-B-10	95ACC1560
		U.L., Black, P.V.C.	3 m	CS-A1-02-U-03	95ASE1120
			5 m	CS-A1-02-U-05	95ASE1130
M12 Connector (Axial)	4		10 m	CS-A1-02-U-10	95ASE1140
(Mary			15 m	CS-A1-02-U-15	95ASE1150
			25 m	CS-A1-02-U-25	95ASE1160
		CONNECTOR	(not cabled)		
M12 Connector (Axial)	4	Black	Connector- not cabled	CS-A1-02-B-NC	G5085002
M12 Connector (Radial 90°)	4	Black	Connector- not cabled	CS-A2-02-B-NC	G5085003

CONNECTOR



RADIAL M8



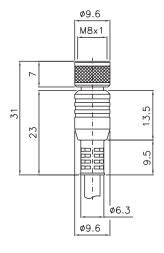










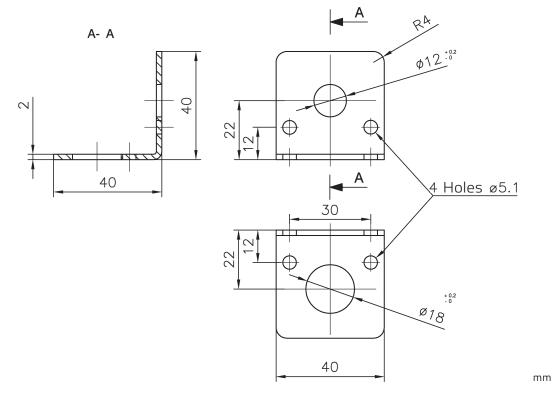


CABLES, CONNECTORS & ACCESSORIES

Accessories Selection And Order Information

CONNECTOR	ТҮРЕ	MATERIAL	CODING	ORDER No.
M12	fixing bracket	Stainless Steel	ST1218	95ACC3340
M18	fixing bracket	Stainless Steel	ST1218	95ACC3340
M30	fixing bracket	Stainless Steel	ST1830	95ACC3350
2	A- A		A () 30 ¹⁰² ()	<u>es ø5.1</u>





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INDEX Inductive

	M4, M	15, M6,5	
SENSOR	Order No.	Category	Pag.
IS-04-A1-03	95B061011	STAINLESS STEEL	34
IS-04-A3-03	95B061001	STAINLESS STEEL	34
IS-05-A1-03	95B061041	BASIC	35
IS-05-A1-S1	95B061051	BASIC	35
IS-05-A20-03	95B065410	NAMUR	62
IS-05-A3-03	95B061021	BASIC	35
IS-05-A3-S1	95B061031	BASIC	35
IS-05-A4-03	95B065420	BASIC	35
IS-05-E3-03	95B065400	BASIC	35
IS-65-A1-03	95B064730	BASIC	10
IS-65-A1-S1	95B066050	BASIC	10
IS-65-A20-03	95B066290	NAMUR	63
IS-65-A20-S1	95B066310	NAMUR	63
IS-65-A2-03	95B064770	BASIC	10
IS-65-A2-S1	95B066090	BASIC	10
IS-65-A3-03	95B064650	BASIC	10
IS-65-A3-S1	95B064970	BASIC	10
IS-65-A4-03	95B064690	BASIC	10
IS-65-A4-S1	95B066010	BASIC	10
IS-65-B1-03	95B064750	BASIC	11
IS-65-B1-S1	95B066070	BASIC	11
IS-65-B2-03	95B064790	BASIC	11
IS-65-B2-S1	95B066110	BASIC	11
IS-65-B3-03	95B064670	BASIC	11
IS-65-B3-S1	95B064990	BASIC	11
IS-65-B4-03	95B064710	BASIC	11
IS-65-B4-S1	95B066030	BASIC	11
IS-65-C1-03	95B064890	BASIC	10
IS-65-C1-S1	95B066210	BASIC	10
IS-65-C20-03	95B066300	NAMUR	63
IS-65-C20-S1	95B066320	NAMUR	63
IS-65-C2-03	95B064930	BASIC	10
IS-65-C2-S1	95B066250	BASIC	10
IS-65-C3-03	95B064810	BASIC	10
IS-65-C3-S1	95B066130	BASIC	10
IS-65-C4-03	95B064850	BASIC	10
IS-65-C4-S1	95B066170	BASIC	10
IS-65-D1-03	95B064910	BASIC	11
IS-65-D1-S1	95B066230	BASIC	11
IS-65-D2-03	95B064950	BASIC	11
IS-65-D2-S1	95B066270	BASIC	11
IS-65-D3-03	95B064830	BASIC	11
IS-65-D3-S1	95B066150	BASIC	11
IS-65-D4-03	95B064870	BASIC	11
IS-65-D4-S1	95B066190	BASIC	11
IS-65-G1-03	95B064740	BASIC	12
IS-65-G1-S1	95B066060	BASIC	12
IS-65-G2-03	95B064780	BASIC	12
IS-65-G2-S1	95B066100	BASIC	12
IS-65-G3-03	95B064660	BASIC	12
IS-65-G3-S1	95B064980	BASIC	12
IS-65-G4-03	95B064700	BASIC	12
IS-65-G4-S1	95B066020	BASIC	12
IS-65-H1-03	95B064900	BASIC	13
IS-65-H1-S1	95B066220	BASIC	13
IS-65-H2-03	95B064940	BASIC	13
IS-65-H2-S1	95B066260	BASIC	13
IS-65-H3-03	95B064820	BASIC	13
IS-65-H3-S1	95B066140	BASIC	13
IS-65-H4-03	95B064860	BASIC	13
IS-65-H4-S1	95B066180	BASIC	13
IS-65-M1-03	95B064760	STAINLESS STEEL	36
IS-65-M1-S1	95B066080	STAINLESS STEEL	36
IS-65-M2-03	95B064800	STAINLESS STEEL	36
IS-65-M2-03	95B064800	STAINLESS STEEL	36
IS-65-M3-03	95B064680	STAINLESS STEEL	36
IS-65-M3-S1	95B064000	STAINLESS STEEL	36
IS-65-M4-03	95B064720	STAINLESS STEEL	36
IS-65-M4-03	95B066040	STAINLESS STEEL	36
10 00 14-01	,55000040	STRATELOS STELL	50

IS-65-N1-03	95B064920	STAINLESS STEEL	37
IS-65-N1-S1	95B066240	STAINLESS STEEL	37
IS-65-N2-03	95B064960	STAINLESS STEEL	37
IS-65-N2-S1	95B066280	STAINLESS STEEL	37
IS-65-N3-03	95B064840	STAINLESS STEEL	37
IS-65-N3-S1	95B066160	STAINLESS STEEL	37
IS-65-N4-03	95B064880	STAINLESS STEEL	37
IS-65-N4-S1	95B066200	STAINLESS STEEL	37
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SENSOR	Order No.	Category	Pag.
IS-08-A1-03	95B061121	BASIC	14
IS-08-A1-S1	95B061141	BASIC	14

SENSOR	Order No.	Category	Pag.
IS-08-A1-03	95B061121	BASIC	14
IS-08-A1-S1	95B061141	BASIC	14
IS-08-A1-S2	95B061131	BASIC	14
IS-08-A20-03	95B066740	NAMUR	64
IS-08-A20-03	95B066760	NAMUR	64
IS-08-A20-S1	95B066780	NAMUR	64
IS-08-A2-03	95B061151	BASIC	14
IS-08-A2-S1	95B061171	BASIC	14
IS-08-A2-S2	95B061161	BASIC	14
IS-08-A3-03	95B061061	BASIC	14
IS-08-A3-S1	95B061081	BASIC	14
IS-08-A3-S2	95B061071	BASIC	14
IS-08-A4-03	95B061091	BASIC	14
IS-08-A4-S1			
	95B061111	BASIC	14
IS-08-A4-S2	95B061101	BASIC	14
IS-08-B1-03	95B061921	BASIC	16
IS-08-B1-S1	95B066860	BASIC	16
IS-08-B1-S2	95B066590	BASIC	16
IS-08-B2-03	95B061951	BASIC	16
IS-08-B2-S1	95B066890	BASIC	16
IS-08-B2-S2	95B066620	BASIC	16
IS-08-B3-03	95B061861	BASIC	16
IS-08-B3-S1	95B066810	BASIC	16
IS-08-B3-S2	95B066530	BASIC	16
IS-08-B4-03	95B061891	BASIC	16
IS-08-B4-S1	95B066830	BASIC	16
IS-08-B4-S2	95B066560	BASIC	16
IS-08-C1-03	95B061521	BASIC	15
IS-08-C1-S1	95B061541	BASIC	15
IS-08-C1-S2	95B061531	BASIC	15
IS-08-C20-03	95B066750	NAMUR	65
IS-08-C20-S1	95B066790	NAMUR	65
IS-08-C20-S2	95B066770	NAMUR	65
IS-08-C2-03	95B061551	BASIC	15
IS-08-C2-S1	95B061571	BASIC	15
IS-08-C2-S2	95B061561	BASIC	15
IS-08-C3-03	95B066410	BASIC	15
IS-08-C3-S1	95B061481	BASIC	15
IS-08-C3-S2	95B061471	BASIC	15
IS-08-C4-03	95B066450	BASIC	15
IS-08-C4-S1	95B061511	BASIC	15
IS-08-C4-S2	95B061501	BASIC	15
IS-08-D1-03	95B062321	BASIC	17
IS-08-D1-S1	95B066970	BASIC	17
IS-08-D1-S2	95B066700	BASIC	17
IS-08-D2-03	95B062351	BASIC	17
IS-08-D2-S1	95B067000	BASIC	17
IS-08-D2-S2	95B066720	BASIC	17
IS-08-D3-03	95B066430	BASIC	17
IS-08-D3-S1	95B066920	BASIC	17
IS-08-D3-S2	95B066650	BASIC	17
IS-08-D4-03	95B062291	BASIC	17
IS-08-D4-S1	95B066940	BASIC	17
IS-08-D4-S2	95B066670	BASIC	17
IS-08-G1-03	95B066370	BASIC	18
IS-08-G1-S1	95B066850	BASIC	18
IS-08-G1-S2	95B066580	BASIC	18
IS-08-G2-03	95B066390	BASIC	18
IS-08-G2-S1	95B066880	BASIC	18
IS-08-G2-S2	95B066610	BASIC	18

IS-08-G3-03	95B066330	BASIC	18
IS-08-G3-S1	95B066800	BASIC	18
IS-08-G3-S2	95B066520	BASIC	18
IS-08-G4-03	95B066350	BASIC	18
IS-08-G4-S1	95B063131	BASIC	18
IS-08-G4-S2	95B066550	BASIC	18
IS-08-H1-03	95B066480	BASIC	19
IS-08-H1-S1	95B066960	BASIC	19
IS-08-H1-S2	95B066690	BASIC	19
IS-08-H2-03	95B066500	BASIC	19
IS-08-H2-S1	95B066990	BASIC	19
IS-08-H2-S2	95B063301	BASIC	19
IS-08-H3-03	95B066420	BASIC	19
IS-08-H3-S1	95B066910	BASIC	19
IS-08-H3-S2	95B066640	BASIC	19
IS-08-H4-03	95B066460	BASIC	19
IS-08-H4-S1	95B063251	BASIC	19
IS-08-H4-S2	95B063241	BASIC	19
IS-08-M1-03	95B066380	STAINLESS STEEL	38
IS-08-M1-S1	95B066870	STAINLESS STEEL	38
IS-08-M1-S2	95B066600	STAINLESS STEEL	38
IS-08-M2-03	95B066400	STAINLESS STEEL	38
IS-08-M2-S1	95B066900	STAINLESS STEEL	38
IS-08-M2-S2	95B066630	STAINLESS STEEL	38
IS-08-M3-03	95B066340	STAINLESS STEEL	38
IS-08-M3-S1	95B066820	STAINLESS STEEL	38
IS-08-M3-S2	95B066540	STAINLESS STEEL	38
IS-08-M4-03	95B066360	STAINLESS STEEL	38
IS-08-M4-S1	95B066840	STAINLESS STEEL	38
IS-08-M4-S2	95B066570	STAINLESS STEEL	38
IS-08-N1-03	95B066490	STAINLESS STEEL	39
IS-08-N1-S1	95B066980	STAINLESS STEEL	39
IS-08-N1-S2	95B066710	STAINLESS STEEL	39
IS-08-N2-03	95B066510	STAINLESS STEEL	39
IS-08-N2-S1	95B067010	STAINLESS STEEL	39
IS-08-N2-S2	95B066730	STAINLESS STEEL	39
IS-08-N3-03	95B066440	STAINLESS STEEL	39
IS-08-N3-S1	95B066930	STAINLESS STEEL	39
IS-08-N3-S2	95B066660	STAINLESS STEEL	39
IS-08-N4-03	95B066470	STAINLESS STEEL	39
IS-08-N4-S1	95B066950	STAINLESS STEEL	39
IS-08-N4-S2	95B066680	STAINLESS STEEL	39
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IS-12-A0-03	95B064030	BASIC	20

SENSOR	Order No.	Category	Pag.
IS-12-A0-03	95B064030	BASIC	20
IS-12-A0-S2	95B064060	BASIC	20
IS-12-A1-03	95B061241	BASIC	20
IS-12-A1-S2	95B061251	BASIC	20
IS-12-A15-03	95B060680	INDUCTIVE AC	56
IS-12-A15-S2	95B060690	INDUCTIVE AC	56
IS-12-A20-03	95B064160	NAMUR	66
IS-12-A20-S2	95B064180	NAMUR	66
IS-12-A2-03	95B061271	BASIC	20
IS-12-A2-S2	95B061281	BASIC	20
IS-12-A3-03	95B061181	BASIC	20
IS-12-A3-S2	95B061191	BASIC	20
IS-12-A4-03	95B061211	BASIC	20
IS-12-A4-S2	95B061221	BASIC	20
IS-12-A9-03	95B064100	BASIC	20
IS-12-A9-S2	95B063931	BASIC	20
IS-12-B1-03	95B062041	BASIC	21
IS-12-B1-S2	95B062051	BASIC	21
IS-12-B2-03	95B062071	BASIC	21
IS-12-B2-S2	95B062081	BASIC	21
IS-12-B3-03	95B061981	BASIC	21
IS-12-B3-S2	95B061991	BASIC	21
IS-12-B4-03	95B062011	BASIC	21
IS-12-B4-S2	95B062021	BASIC	21
IS-12-C0-03	95B064040	BASIC	20
IS-12-C0-S2	95B064080	BASIC	20
IS-12-C1-03	95B061641	BASIC	20
IS-12-C1-S2	95B061651	BASIC	20

IS-12-C20-03	95B064170	NAMUR	66
IS-12-C20-S2	95B064190	NAMUR	66
IS-12-C2-03	95B061671	BASIC	20
IS-12-C2-S2	95B061681	BASIC	20
IS-12-C3-03	95B061581	BASIC	20
IS-12-C3-S2	95B061591	BASIC	20
IS-12-C4-03	95B061611	BASIC	20
IS-12-C4-S2	95B061621	BASIC	20
IS-12-C9-03	95B064110	BASIC	20
IS-12-C9-S2	95B064140	BASIC	20
IS-12-D1-03	95B062441	BASIC	21
IS-12-D1-S2	95B062451	BASIC	21
IS-12-D2-03	95B062471	BASIC	21
IS-12-D2-S2	95B062481	BASIC	21
IS-12-D3-03	95B062381	BASIC	21
IS-12-D3-S2	95B062391	BASIC	21
IS-12-D4-03	95B062411	BASIC	21
IS-12-D4-S2	95B062421	BASIC	21
IS-12-E0-03	95B067190	BASIC	22
IS-12-E0-S2	95B067230	BASIC	22
IS-12-E1-03	95B067670	BASIC	22
IS-12-E1-S2	95B067030	BASIC	22
IS-12-E2-03	95B067680	BASIC	22
IS-12-E2-S2	95B067640	BASIC	22
IS-12-E3-03	95B067690	BASIC	22
IS-12-E3-S2	95B067650	BASIC	22
IS-12-E4-03	95B067700	BASIC	22
IS-12-E4-S2	95B067660	BASIC	22
IS-12-E9-03	95B067200	BASIC	22
IS-12-E9-S2	95B067240	BASIC	22
IS-12-F1-03	95B067740	BASIC	22
IS-12-F1-S2	95B067020	BASIC	22
IS-12-F0-03	95B067210	BASIC	22
IS-12-F0-S2			22
	95B067250	BASIC	
IS-12-F2-03	95B067750	BASIC	22
IS-12-F2-S2	95B067710	BASIC	22
IS-12-F3-03	95B067760	BASIC	22
IS-12-F3-S2	95B067720	BASIC	22
IS-12-F4-03	95B067770	BASIC	22
IS-12-F4-S2	95B067730	BASIC	22
IS-12-F9-03	95B067220	BASIC	22
IS-12-F9-S2	95B067260	BASIC	22
IS-12-G1-03	95B063361	BASIC	23
IS-12-G1-S2	95B063371	BASIC	23
IS-12-G2-03	95B063381	BASIC	23
IS-12-G2-S2	95B063391	BASIC	23
IS-12-G3-03	95B063321	BASIC	23
IS-12-G3-S2	95B063331	BASIC	23
IS-12-G4-03	95B063341	BASIC	23
IS-12-G4-S2	95B063351	BASIC	23
IS-12-G5-03	95B062681	BASIC	23
IS-12-G5-S2	95B062691	BASIC	23
IS-12-G6-03	95B062661	BASIC	23
IS-12-G6-S2	95B062671	BASIC	23
IS-12-H1-03	95B063441	BASIC	23
IS-12-H1-S2	95B063451	BASIC	23
IS-12-H2-03	95B063461	BASIC	23
IS-12-H2-S2	95B063471	BASIC	23
IS-12-H3-03	95B063401	BASIC	23
IS-12-H3-S2	95B063411	BASIC	23
IS-12-H4-03	95B063421	BASIC	23
IS-12-H4-S2	95B063431	BASIC	23
IS-12-H5-03	95B062761	BASIC	23
IS-12-H5-S2	95B062771	BASIC	23
IS-12-H6-03	95B062741	BASIC	23
IS-12-H6-S2	95B062751	BASIC	23
IS-12-I1-S2	95B065340	METAL FACE	48
IS-12-L1-S2	95B063871	METAL FACE	48
IS-12-M1-S2	95B060240	STAINLESS STEEL	40
IS-12-M2-S2	95B060250	STAINLESS STEEL	40
IS-12-M3-S2	95B060260	STAINLESS STEEL	40
IS-12-M4-S2	95B060270	STAINLESS STEEL	40
IS-12-N1-S2	95B060280	STAINLESS STEEL	40
IS-12-N2-S2	95B060290	STAINLESS STEEL	40
IS-12-N3-S2	95B060300	STAINLESS STEEL	40

IS-12-01-S2	95B060000	STAINLESS STEEL	41
IS-12-02-S2	95B060010	STAINLESS STEEL	41
IS-12-03-S2	95B060020	STAINLESS STEEL	41
IS-12-04-S2	95B060030	STAINLESS STEEL	41
IS-12-P1-S2	95B060040	STAINLESS STEEL	41
IS-12-P2-S2	95B060050	STAINLESS STEEL	41
IS-12-P3-S2	95B060060	STAINLESS STEEL	41
IS-12-P4-S2	95B060070	STAINLESS STEEL	41
IS-12-P4-S2	95B060070	STAINLESS STEEL	41
IS-F12-S1-S2	95B065360	WELD FIELD IMMUNE	52
IS-F12-T1-S2	95B065370	WELD FIELD IMMUNE	52
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IS-18-A0-03	95B064230	BASIC	24
IS-18-A0-S2	95B064260	BASIC	24
IS-18-A1-03	95B061341	BASIC	24
IS-18-A1-S2	95B061351	BASIC	24
IS-18-A15-03	95B060770	INDUCTIVE AC	57
IS-18-A15-S2	95B060780	INDUCTIVE AC	57
IS-18-A20-03	95B064360	NAMUR	67
IS-18-A20-S2	95B064380	NAMUR	67
IS-18-A2-03	95B061361	BASIC	24
IS-18-A2-S2	95B061371	BASIC	24
IS-18-A3-03	95B061301	BASIC	24
IS-18-A3-S2	95B061311	BASIC	24
IS-18-A4-03	95B061321	BASIC	24
IS-18-A4-S2	95B061331	BASIC	24
IS-18-A9-03	95B064300	BASIC	24
IS-18-A9-S2	95B063941	BASIC	24
			25
IS-18-B1-03	95B062141	BASIC	
IS-18-B1-S2	95B062151	BASIC	25
IS-18-B2-03	95B062161	BASIC	25
IS-18-B2-S2	95B062171	BASIC	25
IS-18-B3-03	95B062101	BASIC	25
IS-18-B3-S2	95B062111	BASIC	25
IS-18-B4-03	95B062121	BASIC	25
IS-18-B4-S2	95B062131	BASIC	25
IS-18-C0-03	95B064240	BASIC	24
IS-18-C0-S2	95B064280	BASIC	24
IS-18-C1-03	95B061741	BASIC	24
IS-18-C1-S2	95B061751	BASIC	24
IS-18-C20-03	95B064370	NAMUR	67
IS-18-C20-S2	95B064390	NAMUR	67
IS-18-C2-03	95B061761	BASIC	24
IS-18-C2-S2	95B061771	BASIC	24
IS-18-C3-03	95B061701	BASIC	24
IS-18-C3-S2	95B061711	BASIC	24
IS-18-C4-03	95B061721	BASIC	24
IS-18-C4-S2	95B061731		24
		BASIC	
IS-18-C9-03	95B064310	BASIC	24
IS-18-C9-S2	95B064340	BASIC	24
IS-18-D1-03	95B062541	BASIC	25
IS-18-D1-S2	95B062551	BASIC	25
IS-18-D2-03	95B062561	BASIC	25
IS-18-D2-S2	95B062571	BASIC	25
IS-18-D3-03	95B062501	BASIC	25
IS-18-D3-S2	95B062511	BASIC	25
IS-18-D4-03	95B062521	BASIC	25
IS-18-D4-S2	95B062531	BASIC	25
IS-18-E1-S2	95B067050	BASIC	26
IS-18-E0-03	95B067270	BASIC	26
IS-18-E0-S2	95B067310	BASIC	26
IS-18-E1-03	95B067810	BASIC	26
IS-18-E2-03	95B067820	BASIC	26
IS-18-E2-S2	95B067780	BASIC	26
IS-18-E3-03	95B067830	BASIC	26
IS-18-E3-S2	95B067790	BASIC	26
			26
	0500/70/0		
IS-18-E4-03	95B067840	BASIC	
IS-18-E4-03 IS-18-E4-S2	95B067800	BASIC	26
IS-18-E4-03	95B067800 95B067280		
IS-18-E4-03 IS-18-E4-S2	95B067800	BASIC	26

IS-12-N4-S2

IS-12-01-S2

95B060310

95B060000

STAINLESS STEEL

STAINLESS STEEL

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IS-18-F0-S2	95B067330	BASIC	26
IS-18-F1-03	95B067880	BASIC	26
IS-18-F1-S2	95B067040	BASIC	26
IS-18-F2-03	95B067890	BASIC	26
IS-18-F2-S2	95B067850	BASIC	26
IS-18-F3-03	95B067900	BASIC	26
IS-18-F3-S2	95B067860	BASIC	26
IS-18-F4-03	95B067910	BASIC	26
IS-18-F4-S2	95B067870	BASIC	26
IS-18-F9-03	95B067300	BASIC	26
IS-18-F9-S2	95B067340	BASIC	26
IS-18-G1-03	95B063521	BASIC	27
IS-18-G1-S2	95B063531	BASIC	27
IS-18-G2-03	95B063541	BASIC	27
IS-18-G2-S2	95B063551	BASIC	27
IS-18-G3-03	95B063061	BASIC	27
IS-18-G3-S2	95B063491	BASIC	27
IS-18-G4-03	95B063501	BASIC	27
IS-18-G4-S2	95B063511	BASIC	27
IS-18-G5-03	95B062721	BASIC	27
IS-18-G5-S2	95B062731	BASIC	27
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IS-18-G6-S2	95B062711	BASIC	27
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IS-18-H3-S2	95B063571	BASIC	27
IS-18-H4-03	95B063581	BASIC	27
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IS-18-H5-03	95B064220	BASIC	27
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IS-30-A1-S2	95B061431	BASIC	28
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IS-30-F3-03	95B068050	BASIC	30
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