DATASHEET - E59-M18C116D01-D1



Proximity switch, inductive, 1N/O, Sn=18mm, 4L, 6-48VDC, NPN, PNP, M18, metal



Part no. E59-M18C116D01-D1

Catalog No. 136219

Alternate Catalog

E59-M18C116D01-D1

No.

0004315383 **EL-Nummer**

(Norway)

Delivery program

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Basic function			Inductive Sensors
Product range			iProx Series
Connection			3-wire
Design (outer dimensions)		mm	M18 x 1
Rated operational voltage	U _e		6 - 48 V DC
Rated switching distance	S_n	mm	18
Type of mounting			Non-flush
Switching type			NPN PNP
For connection of:			Plug-in connection M12 x 1
Contacts			
N/0 = Normally open			1 N/0
Material			Stainless steel
Degree of Protection			IP67, IP69

Technical data

General

Standards		IEC/EN 60947-5-2
Ambient temperature		-40 - +70
Mechanical shock resistance	g	30 Shock duration 11 ms
Degree of Protection		IP67, IP69
Characteristics		

Characteristics			
Rated switching distance			
Rated switching distance	S_n	mm	18
Repetition accuracy of S_n		%	3
Temperature drift of S _n		%	10
Switching hysteresis of S_n		%	15
Rated operational voltage	U _e		6 - 48 V DC
Maximum load current	I _e	mA	< 300
Operating current in the switched state at 24 V DC	I _b	mA	15
Voltage drop at I_e	U_{d}	V	2.5
Switching Frequency		Hz	150
Min. load current	l _e	mA	1
Residual current through the load in the blocked state at 230 V AC and 24 V DC $$	I _r	mA	0.15
Switching state display		LED	Red
Operating voltage display		LED	Green
Protective functions			Short-circuit protective device Protection against polarity reversal Protection against wire breakage
Connection			3-wire
Contacts			
N/O = Normally open			1 N/0
Style			
Design (outer dimensions)		mm	M18 x 1

For connection of:	Plug-in connection M12 x 1
Material	Stainless steel

Design verification as per IEC/EN 61439

Technical data for design	verification		
Operating ambient te	nperature min.	°C	-40
Operating ambient te	nperature max.	°C	70

Technical data ETIM 7.0

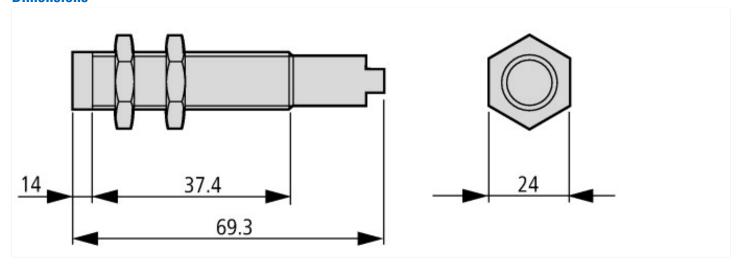
Sensors (EG000026) / Inductive proximity switch (EC002714) Electric engineering, automation, process control engineering / Binary sensor technology, safety-related sensor technology / Proximity switch / Inductive proximity switch (ecl@ss10.0.1-27-27-01-01 [AGZ376015]) Width sensor	
(ecl@ss10.0.1-27-27-01-01 [AGZ376015]) Width sensor mm 0 Height of sensor mm 0 Length of sensor mm 69 Diameter sensor mm 18 Mechanical mounting condition for sensor Not flat Switching distance mm 18	
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Switching distance mm 18	
Critical Language Control of the Con	
Suitable for safety functions No	
Type of switch function Normally open contact	
Type of switching output PNP/NPN	
Type of electric connection Connector M12	
Number of semiconductor outputs with signalling function 1	
Number of contact energized outputs with signalling function 0	
Number of protected semiconductor outputs 0	
Number of protected contact energized outputs 0	
Type of actuation Metallic Target	
Type of interface None	
Type of interface for safety communication None	
Construction type housing Cylinder, screw-thread	
Coating housing Other	
Cascadable	
Category according to EN 954-1	
SIL according to IEC 61508	
Performance level acc. EN ISO 13849-1	
Max. output current at protected output mA 0	
Supply voltage V 6 - 48	
Rated control supply voltage Us at AC 50HZ V 0 - 0	
Rated control supply voltage Us at AC 60HZ V 0 - 0	
Rated control supply voltage Us at DC V 6 - 48	
Voltage type DC	
Switching frequency Hz 150	
With monitoring function downstream switching devices	
Material housing Metal	
Compression-resistant No	
Explosion safety category for gas	
Explosion safety category for dust None	
Interference resistance to magnetic fields	

Approvals

7.pp.oraio	
Product Standards	UL 508; CSA-C22.2 No. 14; IEC60947-5-2; CE marking
UL File No.	E166051
UL Category Control No.	NRKH, NRKH7
CSA File No.	UL report applies to both Canada and US
CSA Class No.	-

North America Certification	UL listed, certified by UL for use in Canada
Max. Voltage Rating	48 V DC
Degree of Protection	IEC: IP67, IP69K; UL/CSA Type: 4, 4x, 6, 6P, 12, 13

Dimensions



Assets (links)

Declaration of CE Conformity

00003158

Instruction Leaflets

IL05301004Z2018_05

Additional product information (links)

IL05301004Z iProx Series Inductive Sensors

IL05301004Z iProx Series Inductive Sensors ftp://ftp.moeller.net/

 $ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL05301004Z2018_05.pdf$