DATASHEET - E59-A18C115C02-CV



Proximity Sensor, M18, analog, Sn=1-15mm, 15-30VDC, 0-20mA, 0-10V, line



E59-A18C115C02-CV Part no. 166807 Catalog No.

Alternate Catalog E59-A18C115C02-CV

No.

Delivery program

Product range Description Current output (0 - 20 mA) and voltage output (0 - 10 V) 3-wire/4-wire Design (outer dimensions) Material E59 AccuProx Series Current output (0 - 20 mA) and voltage output (0 - 10 V) 3-wire/4-wire M18 x 1 M18 x 1 1 - 15 Non-flush Analog 2 m connection cable Stainless steel	zomor, program			
Description Current output (0 - 20 mA) and voltage output (0 - 10 V) 3-wire/4-wire Design (outer dimensions) mm M18 x 1 Rated operational voltage Ue 15 - 30 V DC Rated switching distance Sn mm 1 - 15 Type of mounting Switching type For connection of: Material Current output (0 - 20 mA) and voltage output (0 - 10 V) 3-wire/4-wire M18 x 1 15 - 30 V DC Non-flush Analog 2 m connection cable Stainless steel	Basic function			Inductive Sensors
Connection Connection Design (outer dimensions) Rated operational voltage Ue 15 - 30 V DC Rated switching distance Sn mm 1 - 15 Type of mounting Switching type For connection of: Material S-wire/4-wire 3-wire/4-wire 15 - 30 V DC Non-flush Non-flush Analog 2 m connection cable Stainless steel	Product range			E59 AccuProx Series
Design (outer dimensions) Rated operational voltage Ue 15 - 30 V DC Rated switching distance Sn mm 1 - 15 Non-flush Analog For connection of: Material Material Material M18 x 1 15 - 30 V DC Non-flush Analog Smithing type Stainless steel	Description			Current output (0 - 20 mA) and voltage output (0 - 10 V)
Rated operational voltage Ue Sn mm 1 - 15 Type of mounting Switching type For connection of: Material Ue 15 - 30 V DC 15 - 30 V DC Non-flush Analog 2 m connection cable Stainless steel	Connection			3-wire/4-wire
Rated switching distance Sn mm 1 - 15 Type of mounting Switching type Switching type For connection of: Material Sn mm 1 - 15 Non-flush Analog 2 m connection cable Stainless steel	Design (outer dimensions)		mm	M18 x 1
Type of mounting Switching type Analog For connection of: Material Non-flush Analog 2 m connection cable Stainless steel	Rated operational voltage	U _e		15 - 30 V DC
Switching type Analog For connection of: 2 m connection cable Material Stainless steel	Rated switching distance	S_n	mm	1 - 15
For connection of: 2 m connection cable Material Stainless steel	Type of mounting			Non-flush
Material Stainless steel	Switching type			Analog
	For connection of:			2 m connection cable
Degree of Protection IP67	Material			Stainless steel
	Degree of Protection			IP67

Technical data

General

General			
Standards			IEC/EN 60947-5-2
Ambient temperature			-40 - +70
Mechanical shock resistance		g	30 Shock duration 11 ms
Degree of Protection			IP67
Characteristics			
Repetition accuracy of S_n		%	1
Temperature drift of S _n		%	10
Rated operational voltage	U _e		15 - 30 V DC
Switching state display		LED	Red
Operating voltage display		LED	Green
Connection			3-wire/4-wire
Style			
Design (outer dimensions)		mm	M18 x 1
For connection of:			2 m connection cable
Material			Stainless steel

Design verification as per IEC/EN 61439

Technical data for design verification		
Operating ambient temperature min.	°C	-40
Operating ambient temperature 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	mm	0
Height of sensor	mm	0
Length of sensor	mm	64.5
Diameter sensor	mm	18
Mechanical mounting condition for sensor		Not flat

Suitable for safety functions No Type of switch function Ubter Type of switching output Cbter Type of switching output Cbcle Number of semiconductor outputs with signalling function 0 Number of protected semiconductor outputs with signalling function 0 Number of protected semiconductor outputs 0 Type of interface 0 Type of interface for safety communication 0 Construction type housing 0 Coating housing 0 Catagety according to EN 984-1 0 St. according to EN 984-1 0 St. according to EC 91508 None Performance leval acc. EN ISO 13849-1 mA Max. output current at protected output mA Supply voltage va A 2 Specify voltage Us at AC 60HZ V Rated control supply voltage Us at AC 60HZ<			
Type of switch function Type of switch function Type of switching output Type of lettric connection Number of connection Number of protected semiconductor outputs with signalling function Number of protected semiconductor outputs Number of protected semiconductor outputs Number of protected contact energized outputs Number of protected semiconductor outputs Number of protected contact energized outputs None None Construction type housing Coating housing Coating housing Coating housing Coating housing Category according to EN 994-1 St. accordi	Switching distance	mm	15
Type of switching output Cable Type of electric connection Cable Number of semiconductor outputs with signalling function 0 Number of protected contact energized outputs with signalling function 0 Number of protected contact energized outputs 0 Winder of protected contact energized outputs 0 Type of actuation Motallic Target Type of interface None Construction type housing Other Coating housing Other Category according to EN 954-1 B Sil. according to EC 61508 None Performance level acc. EN ISO 13849-1 None Max. output current at protected output mA 20 Supply voltage V 15-30 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 AC 60HZ V 0-0 Rated control supply voltage Us at AC 60HZ V 0-0 Rated control supply voltage Us at DC V 0-0 Voltage Type	Suitable for safety functions		No
Type of electric connection Number of semiconductor outputs with signalling function Number of contact energized outputs with signalling function Number of protected semiconductor outputs Number of protected contact energized outputs Number of protected contact energized outputs Number of protected contact energized outputs Type of actuation Type of actuation Type of interface Type of interface Type of interface for safety communication Construction type housing Coating housing Coating housing Coating housing Category according to EN 954-1 SIL according to EN 954-1 SIL according to EE 01508 Performance level acc. EN ISO 13849-1 Max. output current at protected output Max. output current at protected output Supply voltage Rated control supply voltage Us at AC 50HZ Rated control supply voltage Us at AC 50HZ Rated control supply voltage Us at AC 60HZ Rated control su	Type of switch function		Other
Number of semiconductor outputs with signalling function Number of contact energized outputs with signalling function Number of protected semiconductor outputs Number of protected contact energized outputs Number of protected output Number of Numbe	Type of switching output		Other
Number of contact energized outputs with signalling function Number of protected semiconductor outputs Number of protected contact energized outputs Type of actuation Type of catuation Type of interface for safety communication Construction type housing Coating housing Coating housing Coating housing Category according to EN 954-1 Sil. accordi	Type of electric connection		Cable
Number of protected semiconductor outputs Number of protected contact energized outputs Type of interface Type of interface for safety communication Construction type housing Coating housing Coating housing Category according to EN 954-1 SLI Laccording to IEC 61508 Performance level acc. EN ISO 13849-1 Max. output current at protected output Max. output	Number of semiconductor outputs with signalling function		0
Number of protected contact energized outputs 6 Type of actuation Metallic Target Type of interface None Type of interface for safety communication None Construction type housing Cylinder, screw-thread Caseadable No Category according to EN 954-1 B SIL according to IEC 61508 None Performance level acc. EN ISO 13849-1 Mone Max. output current at protected output mA 20 Max. output current at protected output mA 20 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 AC 60HZ V 15-30 Rated control supply voltage Us at AC 60HZ V 0-0 Rated control supply voltage Us at AC 60HZ V 0-0 With monitoring frequency HZ 100 With monitoring function downstream switching devices M Metall Material housing No No Compression-resistant No No <td>Number of contact energized outputs with signalling function</td> <td></td> <td>0</td>	Number of contact energized outputs with signalling function		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 No Category according to EN 954-1 B SIL according to IEC 61508 None Performance level acc. EN ISO 13849-1 None Max. output current at protected output mA 20 Supply voltage V 5-30 Rated control supply voltage Us at AC 50HZ V 0-0 Rated control supply voltage Us at AC 60HZ V 0 Rated control supply voltage Us at AC 60HZ V 15-30 Rated control supply voltage Us at DC V 15-30 Voltage type DC DC Switching frequency Hz 100 With monitoring function downstream switching devices No Metal Material housing Metal Metal Compression-resistant No None Explosion safety category for dust <	Number of protected semiconductor outputs		0
Type of interface None Type of interface for safety communication None Construction type housing Cylinder, screw-thread Coating housing Other Cascadable No Category according to EN 954-1 B SIL according to IEC 61508 None Performance level acc. EN ISO 13849-1 None Max. output current at protected output mA 20 Supply voltage V 15 - 30 Rated control supply voltage Us at AC 60HZ V 0 - 0 Rated control supply voltage Us at AC 60HZ V 0 - 0 Rated control supply voltage Us at DC V 0 - 0 Voltage type DC DC Switching frequency Hz 100 With monitoring function downstream switching devices No No Material housing Metal None Compression-resistant No None Explosion safety category for dust None None	Number of protected contact energized outputs		0
Type of interface for safety communication None Construction type housing Cylinder, screw-thread Coating housing Other Cascadable No Category according to EN 954-1 B SIL according to IEC 61508 None Performance level acc. EN ISO 13849-1 None Max. output current at protected output mA 20 Supply voltage V 15 - 30 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 AC 60HZ V 0 - 0 Voltage type DC DC Switching frequency MEZ 100 With monitoring function downstream switching devices Metal Material housing Metal Compression-resistant None Explosion safety category for gas None Explosion safety category for dust None	Type of actuation		Metallic Target
Costruction type housing Coating housing Cascadable Category according to EN 954-1 SIL according to EN 954-1 SIL according to EC 61508 Performance level acc. EN ISO 13849-1 Max. output current at protected output Max. output current at protected output Max. output current at protected output Max. output current at protected output V 15-30 Supply voltage Us at AC 50HZ Rated control supply voltage Us at AC 60HZ Rated control supply voltage Us at AC 60HZ Routput purchase	Type of interface		None
Coating housing 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 Max. output current at protected output Max. output current at protected output Max. output current at protected output Max. output current at protected output Max. output current at protected output Max. output current at protected output Max. output current at protected output Max. output current at protected output Max. output current at protected output Max. output current at protected output Max. output current at protected output Material output 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 AC 60HZ V 15-30 Voltage type C C Switching frequency With monitoring function downstream switching devices No Material housing Compression-resistant Explosion safety category for gas Explosion safety category for dust None	Type of interface for safety communication		None
Cascadable Category according to EN 954-1 SIL according to IEC 61508 None Performance level acc. EN ISO 13849-1 Max. output current at protected output Max. output output output output output Max. output output output output output Max. output output output Max. output M	Construction type housing		Cylinder, screw-thread
Eategory according to EN 954-1 SIL according to IEC 61508 None Performance level acc. EN ISO 13849-1 Max. output current at protected output Max. output current at protected output Max. output current at protected output Supply voltage No Rated control supply voltage Us at AC 50HZ Rated control supply voltage Us at AC 60HZ Notage type Notage type Switching frequency With monitoring function downstream switching devices Material housing Compression-resistant Explosion safety category for dust B None None None None None None None None	Coating housing		Other
SIL according to IEC 61508 Performance level acc. EN ISO 13849-1 Max. output current at protected output Max. output current at protected output Supply voltage V 15 - 30 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 AC 60HZ V 0 - 0 Switching frequency With monitoring function downstream switching devices Material housing Compression-resistant Explosion safety category for dust None None None None	Cascadable		No
Performance level acc. EN ISO 13849-1 Max. output current at protected output Max. output current at protected output Max. output current at protected output Supply voltage V 15 - 30 Rated control supply voltage Us at AC 50HZ Rated control supply voltage Us at AC 60HZ V 0 - 0 Rated control supply voltage Us at DC V 15 - 30 Voltage type DC Switching frequency Hz 100 With monitoring function downstream switching devices Motel Compression-resistant Explosion safety category for gas Explosion safety category for dust None	Category according to EN 954-1		В
Max. output current at protected output Supply voltage V 15 - 30 Rated control supply voltage Us at AC 50HZ Rated control supply voltage Us at AC 60HZ V 0 - 0 Rated control supply voltage Us at AC 60HZ V 0 - 0 Rated control supply voltage Us at DC V 15 - 30 Voltage type DC Switching frequency Hz 100 With monitoring function downstream switching devices Material housing Compression-resistant Explosion safety category for gas Explosion safety category for dust Max 10 - 0 DC None	SIL according to IEC 61508		None
Supply voltage Rated control supply voltage Us at AC 50HZ Rated control supply voltage Us at AC 60HZ Rated control supply voltage Us at AC 60HZ V 0 - 0 Rated control supply voltage Us at AC 60HZ V 15 - 30 Voltage type DC Switching frequency Hz 100 With monitoring function downstream switching devices Material housing Compression-resistant Compression-resistant Explosion safety category for dust None None	Performance level acc. EN ISO 13849-1		None
Rated control supply voltage Us at AC 50HZ Rated control supply voltage Us at AC 60HZ Rated control supply voltage Us at AC 60HZ V 0 - 0 Rated control supply voltage Us at DC V 15 - 30 Voltage type DC Switching frequency Hz 100 With monitoring function downstream switching devices Material housing Compression-resistant Compression-resistant Explosion safety category for dust None None	Max. output current at protected output	mA	20
Rated control supply voltage Us at AC 60HZ Rated control supply voltage Us at DC V 15 - 30 Voltage type DC Switching frequency Hz 100 With monitoring function downstream switching devices No Material housing Compression-resistant Explosion safety category for gas Explosion safety category for dust V 0 - 0	Supply voltage	V	15 - 30
Rated control supply voltage Us at DC Voltage type Switching frequency With monitoring function downstream switching devices Material housing Compression-resistant Explosion safety category for dust V 15 - 30 DC NO Metal No Metal No Explosion safety category for gas Explosion safety category for dust V 15 - 30 Metal No No Metal No No No No No No No No No N	Rated control supply voltage Us at AC 50HZ	V	0 - 0
Voltage type Switching frequency With monitoring function downstream switching devices Material housing Compression-resistant Explosion safety category for dust DC No Metal No No No No No No No No No N	Rated control supply voltage Us at AC 60HZ	V	0 - 0
Switching frequency With monitoring function downstream switching devices No Material housing Compression-resistant Explosion safety category for dust Hz 100 Metal Metal No No No No None	Rated control supply voltage Us at DC	V	15 - 30
With monitoring function downstream switching devices Metal Compression-resistant Explosion safety category for dust No No No Noe	Voltage type		DC
Material housing Metal Compression-resistant No Explosion safety category for gas None Explosion safety category for dust None	Switching frequency	Hz	100
Compression-resistant Explosion safety category for gas None None None	With monitoring function downstream switching devices		No
Explosion safety category for gas Explosion safety category for dust None	Material housing		Metal
Explosion safety category for dust None	Compression-resistant		No
	Explosion safety category for gas		None
Interference resistance to magnetic fields	Explosion safety category for dust		None
	Interference resistance to magnetic fields		

Approvals

- pp. 5 a.s.	
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.	50513
CSA Class No.	3211-03
North America Certification	UL listed, CSA certified
Max. Voltage Rating	30 V DC
Degree of Protection	IEC: IP67; UL/CSA Type: 4, 4x, 6, 6P, 12, 13

Assets (links)

Declaration of CE Conformity

00003158

Instruction Leaflets

IL05301010Z2018_05

Additional product information (links)

IL05301010Z AccuProx Series Analog Inductive Sensors

IL05301010Z AccuProx Series Analog Inductive ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL05301010Z2018_05.pdf Sensors