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DATASHEET - E59-A12A104C02-CV

Proximity Sensor, M12, analog, Sn=0.5-4mm, 15-30VDC, 0-20mA, 0-10V, line 2m

Part no. E59-A12A104C02-CV
166832

General specifications

Product name	Eaton E59 AccuProx analog inductive proximity sensor
Part no.	E59-A12A104C02-CV
EAN	4015081643561
Product Length/Depth	152.4 millimetre
Product height	44.45 millimetre
Product width	127 millimetre
Product weight	0.45 kilogram
Certifications	UL File No.: E166051 UL Category Control No.: NRKH, NRKH7 CSA File No.: 50513 CSA-C22.2 No. 14 CSA Class No.: 3211-03 IEC/EN 60947-5-2 UL 508 CSA UL CE
Product Tradename	E59 AccuProx
Product Type	Analog inductive proximity sensors
Product Sub Type	None
Public Consumption	Yes
Product Family Description	ES-PCD-Eaton E59 AccuProx analog inductive proximity sensors
Globally Marketable	Yes

Product Specification Details

Actuation type	Metallic Target
Ambient operating temperature - max	70 °C
Ambient operating temperature - min	-40 °C
Category (EN 954-1)	B
Connection type	3-wire/4-wire 2 m connection cable
Degree of protection	NEMA 4X, 6, 13 IP67
Diameter sensor	12 mm
Electric connection type	Cable
Enclosure material	Metal
Enclosure material finishing	Other
Enclosure type	Cylinder, screw-thread
Explosion safety category for dust	None
Explosion safety category for gas	None
Installation type	Concise
Interface type	None
LED indicator	Status indication of Operating voltage: Green LED Status indication of Switching state: Red LED
Material	Stainless steel
Mounting method	Flush mounting
Number of contact energized outputs with signalling function	0
Number of outputs (protected contact energized)	0
Number of outputs (protected semiconductor)	0
Number of outputs (semiconductor with signaling function)	0
Output current	0 - 20 mA
Output current at protected output - max	20 mA
Output voltage	0 - 10 V

Product category			E59 AccuProx Series
Rated control supply voltage (Us) at AC, 50 Hz - max			0 V
Rated control supply voltage (Us) at AC, 50 Hz - min			0 V
Rated control supply voltage (Us) at AC, 60 Hz - max			0 V
Rated control supply voltage (Us) at AC, 60 Hz - min			0 V
Rated control supply voltage (Us) at DC - max			30 V
Rated control supply voltage (Us) at DC - min			15 V
Rated switching distance (Sn) - max			4 mm
Rated switching distance (Sn) - min			0.5 mm
Repeatability			3 %
Safety performance level (EN ISO 13849-1)			None
Sensor height			0 mm
Sensor length			62.4 mm
Shock resistance			30 g, Mechanical, Shock duration 11 ms
SIL (IEC 61508)			None
Supply voltage - max			30 V
Supply voltage - min			15 V
Switch function type			Other
Switching frequency			200 Hz
Switching output type			Analog
Temperature drift of sn			10 %
Type			Inductive sensor
Voltage rating - max			30 V
Voltage type			DC
Width sensor			0 mm

Technical data ETIM 9.0

Sensors (EG000026) / Inductive proximity switch (EC002714)		
Electric engineering, automation, process control engineering / Sensor technology, safety-related sensor technology / Safety-related inductive sensor / Safety-related inductive proximity switch (ecl@ss13-27-27-41-01 [AKE630019])		
Width sensor	mm	0
Height of sensor	mm	0
Length of sensor	mm	62.4
Diameter sensor	mm	12
Mechanical mounting condition for sensor		Concise
Switching distance	mm	4
Suitable for safety functions		
Type of switch function		Other
Type of switching output		Other
Type of electric connection		Cable
Number of semiconductor outputs with signalling function		0
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		
SIL according to IEC 61508		None
Performance level according to EN ISO 13849-1		None
Max. output current at protected output	mA	20
Supply voltage	V	15 - 30
Rated control supply voltage AC 50 Hz	V	0 - 0
Rated control supply voltage AC 60 Hz	V	0 - 0

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Rated control supply voltage DC	V	15 - 30
Voltage type		DC
Switching frequency	Hz	200
With monitoring function downstream switching devices		
Housing material		Metal
Compression-resistant		
Explosion safety category for gas		None
Explosion safety category for dust		None
Interference resistance to magnetic fields		
Degree of protection (NEMA)		4X, 6, 13

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