DATASHEET - E59-A12A104C02-C1

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

Part no. **E59-A12A104C02-C1**
166831

General specifications

Product name	Eaton E59 AccuProx analog inductive proximity sensor
Part no.	E59-A12A104C02-C1
EAN	4015081643554
Product Length/Depth	152.4 millimetre
Product height	44.45 millimetre
Product width	127 millimetre
Product weight	0.45 kilogram
Certifications	CE UL Category Control No.: NRKH, NRKH7 UL CSA-C22.2 No. 14 CSA File No.: 50513 CSA Class No.: 3211-03 UL File No.: E166051 CSA IEC/EN 60947-5-2 UL 508
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	2 m connection cable 3-wire/4-wire
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	4 - 20 mA
Output current at protected output - max	20 mA
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
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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