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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

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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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