DATASHEET - E59-A12C108C02-CV

Proximity Sensor, M12, analog, Sn=1-8mm, 15-30VDC, 0-20mA, 0-10V, line 2m

Part no. **E59-A12C108C02-CV**
166836

General specifications

Product name	Eaton E59 AccuProx analog inductive proximity sensor
Part no.	E59-A12C108C02-CV
EAN	4015081643592
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 UL CE IEC/EN 60947-5-2 UL 508 CSA
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	Not flat
Interface type	None
LED indicator	Status indication of Switching state: Red LED Status indication of Operating voltage: Green LED
Material	Stainless steel
Mounting method	Non-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	8 mm
Rated switching distance (Sn) - min	1 mm
Repeatability	1 %
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	100 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		Not flat
Switching distance	mm	8
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	100
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

© 04/2023 by Eaton Industries GmbH