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DATASHEET - E59-A30A112D01-C1

Proximity Sensor, M30, analog, Sn=1-12mm, 15-30VDC, 4-20mA, M12

Part no. E59-A30A112D01-C1
166684

General specifications	
Product name	Eaton E59 AccuProx analog inductive proximity sensor
Part no.	E59-A30A112D01-C1
EAN	4015081643691
Product Length/Depth	152.4 millimetre
Product height	44.45 millimetre
Product width	127 millimetre
Product weight	0.45 kilogram
Certifications	UL Category Control No.: NRKH, NRKH7 CSA-C22.2 No. 14 IEC/EN 60947-5-2 CSA File No.: 50513 CE CSA Class No.: 3211-03 UL UL 508 UL File No.: E166051 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	3-wire/4-wire Plug-in connection M12 x 1
Degree of protection	NEMA 4X, 6, 13 IP67
Diameter sensor	30 mm
Electric connection type	Other
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		12 mm
Rated switching distance (Sn) - min		1 mm
Repeatability		1 %
Safety performance level (EN ISO 13849-1)		None
Sensor height		0 mm
Sensor length		74.1 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		140 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	74.1
Diameter sensor	mm	30
Mechanical mounting condition for sensor		Concise
Switching distance	mm	12
Suitable for safety functions		
Type of switch function		Other
Type of switching output		Other
Type of electric connection		Other
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	140
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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