DATASHEET - E59-A12A104D01-CV



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



Part no. E59-A12A104D01-CV 166834 Catalog No. Alternate Catalog E59-A12A104D01-CV

No.

Delivery program

Delivery program			
Basic function			Inductive Sensors
Product range			E59 AccuProx Series
Description			Current output (0 - 20 mA) and voltage output (0 - 10 V)
Connection			3-wire/4-wire
Design (outer dimensions)		mm	M12 x 1
Rated operational voltage	U _e		15 - 30 V DC
Rated switching distance	S_n	mm	0.5 - 4
Type of mounting			Flush
Switching type			Analog
For connection of:			Plug-in connection M12 x 1
Material			Stainless steel
Degree of Protection			IP67

Technical data

General

Ambient temperature Mechanical shock resistance Degree of Protection Degree of Protection Characteristics Repetition accuracy of Sn Temperature drift of Sn Rated operational voltage Switching state display Degrating voltage display Design (outer dimensions) Design (outer dimensions) Another temperature -40 - +70 -40 - +1 -40 - +	delieral			
Mechanical shock resistance Begree of Protection Characteristics Repetition accuracy of Sn Rated operational voltage Switching state display Operating voltage display Connection Style Design (outer dimensions) Begree of Protection Shock duration 11 ms IP67 IP67 1 0 1 0 1 0 1 5 - 30 V DC LED Red Green 3-wire/4-wire IED Mm M12 x 1 For connection M12 x 1	Standards			IEC/EN 60947-5-2
Degree of Protection P	Ambient temperature			-40 - +70
Characteristics Repetition accuracy of S _n Repetition acc	Mechanical shock resistance		g	
Repetition accuracy of Sn	Degree of Protection			IP67
Temperature drift of S _n Rated operational voltage Ve LED Red Operating voltage display Connection Style Design (outer dimensions) For connection of: Ne 10 15 - 30 V DC Red Green 3-wire/4-wire M12 x 1 For connection of: Plug-in connection M12 x 1	Characteristics			
Rated operational voltage Switching state display Ue LED Red Operating voltage display Connection Style Design (outer dimensions) M12 x 1 For connection of: Design connection of: Design (outer dimensions)	Repetition accuracy of S_n		%	3
Switching state display LED Red Operating voltage display LED Green 3-wire/4-wire Style Design (outer dimensions) mm M12 x 1 For connection of: Plug-in connection M12 x 1	Temperature drift of S _n		%	10
Operating voltage display LED Green Connection 3-wire/4-wire Style Design (outer dimensions) mm M12 x 1 For connection of: Plug-in connection M12 x 1	Rated operational voltage	U _e		15 - 30 V DC
Connection 3-wire/4-wire Style mm M12 x 1 For connection of: Plug-in connection M12 x 1	Switching state display		LED	Red
Style Design (outer dimensions) mm M12 x 1 For connection of: Plug-in connection M12 x 1	Operating voltage display		LED	Green
Design (outer dimensions) mm M12 x 1 For connection of: Plug-in connection M12 x 1	Connection			3-wire/4-wire
For connection of: Plug-in connection M12 x 1	Style			
	Design (outer dimensions)		mm	M12 x 1
Material Stainless steel	For connection of:			Plug-in connection M12 x 1
	Material			Stainless steel

Design verification as per IEC/EN 61439

Technical data for design verification			
Operating ambient temperature min.	c	°C	-40
Operating ambient temperature max.	c	°C	70

Technical data ETIM 7.0

Sensors (EG000026) / Inductive proximity switch (EC002714)

Electric engineering, automation, process control engineering / Binary sensor technology, safety-related sensor technology / Proximity switch / Inductive proximity switch (ecl@ss10.0.1-27-27-01-01 [AGZ376015])		
Width sensor	mm	0
Height of sensor	mm	0
Length of sensor	mm	77.5
Diameter sensor	mm	12
Mechanical mounting condition for sensor		Concise

Switching distance	mm	4
Suitable for safety functions		No
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		No
Category according to EN 954-1		В
SIL according to IEC 61508		None
Performance level acc. EN ISO 13849-1		None
Max. output current at protected output	mA	20
Supply voltage	V	15 - 30
Rated control supply voltage Us at AC 50HZ	V	0 - 0
Rated control supply voltage Us at AC 60HZ	V	0 - 0
Rated control supply voltage Us at DC	V	15 - 30
Voltage type		DC
Switching frequency	Hz	200
With monitoring function downstream switching devices		No
Material housing		Metal
Compression-resistant		No
Explosion safety category for gas		None
Explosion safety category for dust		None
Interference resistance to magnetic fields		

Approvals

Product Standards	UL 508; CSA-C22.2 No. 14; IEC60947-5-2; CE marking
UL File No.	E166051
UL Category Control No.	NRKH, NRKH7
CSA File No.	50513
CSA Class No.	3211-03
North America Certification	UL listed, CSA certified
Max. Voltage Rating	30 V DC
Degree of Protection	IEC: IP67; UL/CSA Type: 4, 4x, 6, 6P, 12, 13

Additional product information (links)

IL05301010Z AccuProx Series Analog Inductive Sensors

IL05301010Z AccuProx Series Analog Inductive https://es-assets.eaton.com/D0CUMENTATION/AWA_INSTRUCTIONS/IL05301010Z2018_05.pdf Sensors