DATASHEET - E76-CNT010N-M12

Sensor, contrast, M18, Sn=10mm, 10-30VDC, NPN, M12

Part no. **E76-CNT010N-M12**
166929

General specifications

Product name	Eaton Moeller® series E76 Optical contrast sensor
Part no.	E76-CNT010N-M12
EAN	4015081643059
Product Length/Depth	802.23 millimetre
Product height	170.18 millimetre
Product width	134.62 millimetre
Product weight	0.1 kilogram
Certifications	UL File No.: E166051 IEC/EN 60947-5-2 Certified by UL for use in Canada UL CSA-C22.2 No. 14 UL 508 CSA File No.: UL report applies to both US and Canada CE UL Category Control No.: NRKH, NRKH7
Product Tradename	E76
Product Type	Optical contrast sensor
Product Sub Type	None

Product Specification Details

Adjustment type	Other
Ambient operating temperature - max	55 °C
Ambient operating temperature - min	-10 °C
Ambient storage temperature - max	70 °C
Ambient storage temperature - min	-20 °C
Cable sheath material	Other
Connection type	4-wire Plug-in connection M12 x 1
Degree of protection	NEMA 4X IP67
Diameter sensor	18 mm
Electric connection type	Plug-in connection
Enclosure material	Plastic
Enclosure type	Cylinder, screw-thread
Fiber optics core material	Other
Functions	Short-circuit protection Reflected-light beam Contrast sensing
Lamp type	Other
Laser protection class	Other
LED indicator	Status indication of Switching state: Yellow LED Status indication of Operating voltage: Green LED
Light dot size	0 mm^2
Light type	Other White light
Load current	Max. 100 mA (Ie)
No-load current	0 A
Number of contact energized outputs with signalling function	0
Number of outputs (semiconductor with signaling function)	0
Operating distance - max	10 mm
Operating mode	Switching principle: Adjustable bright/dark switching
Operating temperature - max	55 °C
Operating temperature - min	-10 °C

Operation agent-safety class	Safety class 2
Optical surface material	Plastic
Output current (mA) - max	100 mA
Product category	E76 IntelliView Series
Rated switching distance (Sn)	100 mm
Response time	0.19 ms
Sensor height	0 mm
Sensor length	81.5 mm
Sensor material	Insulated material
Shock resistance	30 g, Mechanical, Shock duration 11 ms
Switch function type	Programmable/configurable
Switching frequency	2700 Hz
Switching output type	NPN
Type	Optical sensors
Vibration resistance	According to IEC/EN 60068-2-6 10 - 55 Hz, Amplitude 0.5 mm
Voltage rating - max	30 V
Voltage type	DC
Width sensor	0 mm
Wire size	0

Technical data ETIM 9.0

Sensors (EG000026) / Luminescence sensor (EC001822)

Electric engineering, automation, process control engineering / Sensor technology, safety-related sensor technology / Optoelectronic sensor / Luminescence scanner (ecl@ss13-27-27-09-08 [AKP257020])

Lamp type		Other
Analogue output 0 V ... 10 V		No
Analogue output 0 mA ... 20 mA		No
Analogue output 4 mA ... 20 mA		No
Analogue output -10 V ... +10 V		No
Type of electric connection		Plug-in connection
Number of semiconductor outputs with signalling function		0
Number of contact energized outputs with signalling function		0
Type of switching output		NPN
Type of switch function		Programmable/configurable
With blanking function		No
Operation agent-safety class		Safety class 2
Width sensor	mm	0
Height of sensor	mm	0
Length of sensor	mm	81.5
Diameter sensor	mm	18
Setting procedure		Other
Type of frequency band of the receiving spectrum		Other
Construction type housing		Cylinder, screw-thread
Laser protection class		Other
No-load current	mA	0
Type of light		White light
Light dot	mm^2	0
With fibre optics connection		No
Max. output current	mA	100
Nominal operating distance	mm	10
Switching frequency	Hz	2700
Degree of protection (IP)		IP67
Degree of protection (NEMA)		4X
Voltage type		DC
Ambient temperature	°C	-10 - 55

With exchange lens			No
Material of optical surface			Plastic
Housing material			Plastic
Material of cable sheath			Other
Material fibre optics core			Other
With time function			No
AWG-number			0

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