DATASHEET - E76-CLRMKN-M12

Optical sensors, Reflected-light beam, Color sensing, 3 NO NPN outputs, 8 conductor, 10 - 30 V DC, Sn = 450 mm, Plug-in connection M12 x 1

Part no. **E76-CLRMKN-M12**
166926

General specifications

Product name	Eaton Moeller® series E76 Optical color sensor
Part no.	E76-CLRMKN-M12
EAN	4015081643097
Product Length/Depth	25 millimetre
Product height	50 millimetre
Product width	50 millimetre
Product weight	0.43 kilogram
Certifications	CE IEC/EN 60947-5-2 UL File No.: E166051 CSA File No.: UL report applies to both US and Canada UL Category Control No.: NRKH, NRKH7 UL 508 CSA-C22.2 No. 14 UL Certified by UL for use in Canada
Product Tradename	E76
Product Type	Optical color 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	8 conductor Plug-in connection M12 x 1
Degree of protection	NEMA 4X IP67
Diameter sensor	0 mm
Electric connection type	Connector M12
Enclosure material	Plastic
Enclosure type	Cuboid
Fiber optics core material	Other
Functions	Color sensing Reflected-light beam Short-circuit protection
Lamp type	Other
Laser protection class	Class 2
LED indicator	Status indication of Switching state: Yellow LED
Light dot size	0 mm^2
Light type	Infrared light Other
No-load current	0 A
Number of contact energized outputs with signalling function	0
Number of outputs (semiconductor with signaling function)	3
Operating distance - max	45 mm
Operating temperature - max	55 °C
Operating temperature - min	-10 °C
Operation agent-safety class	Safety class 2
Optical surface material	Glass

Output		3 NO NPN Outputs
Output current (mA) - max		100 mA
Product category		E76 IntelliView Series
Rated switching distance (Sn)		450 mm
Response time		0.65 ms
Sensor height		50 mm
Sensor length		50 mm
Shock resistance		30 g, Mechanical, Shock duration 11 ms
Switch function type		Normally open contact (NO)
Switching frequency		770 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		25 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		Connector M12
Number of semiconductor outputs with signalling function		3
Number of contact energized outputs with signalling function		0
Type of switching output		NPN
Type of switch function		Normally open contact (NO)
With blanking function		No
Operation agent-safety class		Safety class 2
Width sensor	mm	25
Height of sensor	mm	50
Length of sensor	mm	50
Diameter sensor	mm	0
Setting procedure		Other
Type of frequency band of the receiving spectrum		Other
Construction type housing		Cuboid
Laser protection class		Class 2
No-load current	mA	0
Type of light		Infrared light
Light dot	mm^2	0
With fibre optics connection		No
Max. output current	mA	100
Nominal operating distance	mm	45
Switching frequency	Hz	770
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		Glass

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

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