

**Diffuse reflective sensor, Sn=100mm, 4L, 10-30VDC, NPN, PNP, M18,
insulated material, M12**

**Part no. 13101AQD07
135589**

General specifications		
Product name		Eaton Moeller® series E58 Diffuse reflective sensor
Part no.		13101AQD07
EAN		4015081323821
Product Length/Depth		127 millimetre
Product height		50.8 millimetre
Product width		152.4 millimetre
Product weight		0.3 kilogram
Certifications		UL Category Control No.: NRKH, NRKH7 IEC/EN 60947-5-2 CE CSA File No.: 50513 UL File No.: E117028 CSA UL CSA-C22.2 No. 14 UL 508 CSA Class No.: 3211-07
Product Tradename		E58
Product Type		Diffuse reflective sensor
Product Sub Type		None
Product Specification Details		
Adjustment range - max		0 mm
Adjustment range - min		0 mm
Adjustment type		Other
Ambient operating temperature - max		70 °C
Ambient operating temperature - min		-40 °C
Cable sheath material		Other
Connection type		Plug-in connection M12 x 1 4-wire
Degree of protection		NEMA 6 IP67
Diameter sensor		18 mm
Electric connection type		Plug-in connection
Enclosure material		Plastic
Enclosure type		Cylinder, screw-thread
Explosion safety category for dust		None
Explosion safety category for gas		None
Features		Straight beam
Fitted with:		Background suppression (Perfect Prox)
Functions		Reflected-light beam Short-circuit protection Protection against polarity reversal
Interface type		Other
Laser protection class		None
LED indicator		Status indication of Switching state: Red LED
Light dot size		0 mm ²
Light type		Infrared light
Load current		Max. 250 mA (Ie, NPN, 120 > 50°C) Max. 100 mA (Ie, PNP)
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)		2
Operating distance - max		0 mm
Operating distance - min		0 mm
Operating mode		Switching principle: Adjustable bright/dark switching
Operation agent-safety class		Safety class 2
Operational current (Ib) in the switched state at 24 V DC		30 A
Optical surface material		Plastic
Output current (mA) - max		250 mA
Output current at protected output - max		0 mA
Product category		Comet 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		10 V
Rated switching distance (Sn)		100 mm
Reflector distance - min		0 mm
Response time		1 ms
Safety type (IEC 61496-1)		1
Sensing mode		Light-/dark switching
Sensor height		0 mm
Sensor length		66 mm
Sensor material		Insulated material
Shock resistance		100 g, Mechanical, Shock duration 3 ms
Switch function type		Programmable/configurable
Switching distance - max		100 mm
Switching frequency		500 Hz
Switching output type		PNP
Switching voltage of OSSD at state "high"		30 V
Transmission range of the safety field		0 m
Triangulation		Background fade-out
Type		Optical sensors
Voltage rating - max		30 V
Voltage type		DC
Wavelength of the sensor		0 nm
Width sensor		0 mm
Wire size		22

Technical data ETIM 9.0

Sensors (EG000026) / Light scanner with background masking (EC002719)			
Electric engineering, automation, process control engineering / Sensor technology, safety-related sensor technology / Optoelectronic sensor / Light scanner (ecl@ss13-27-27-09-03 [AKP252018])			
Adjustment range	mm		0 - 0
Operating distance	mm		0 - 0
Triangulation			Background fade-out
Pre failure notice			No
With time function			No
Rated switching distance	mm		100
Max. switching distance	mm		100
Max. output current	mA		250
With reflector			No
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

With other analogue output			No
Setting procedure			Other
With communication interface analogue			No
With communication interface AS-Interface			No
With communication interface CANOpen			No
With communication interface DeviceNet			No
With communication interface Ethernet			No
With communication interface INTERBUS			No
With communication interface PROFIBUS			No
With communication interface RS-232			No
With communication interface RS-422			No
With communication interface RS-485			No
With communication interface SSD			No
With communication interface SSI			No
Number of semiconductor outputs with signalling function			2
Number of contact energized outputs with signalling function			0
Number of protected semiconductor outputs			0
Number of protected contact energized outputs			0
Type of interface for safety communication			Other
Type of electric connection			Plug-in connection
Type of switching output			PNP
Type of switch function			Programmable/configurable
Operation agent-safety class			Safety class 2
Explosion safety category for gas			None
Explosion safety category for dust			None
Construction type housing			Cylinder, screw-thread
Width sensor		mm	0
Diameter sensor		mm	18
Height of sensor		mm	0
Length of sensor		mm	66
Sensing mode			Light/dark switching
Material of optical surface			Plastic
Housing material			Plastic
Max. output current at protected output		mA	0
Min. reflector distance		mm	0
Ambient temperature		°C	-40 - 70
Response time		ms	1
Transmission range of the safety field		m	0
Switching frequency		Hz	500
Type of safety according to IEC 61496-1			1
Switching voltage of OSSD at state "high"		V	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	10 - 30
Voltage type			DC
With monitoring function downstream switching devices			No
Laser protection class			None
Wavelength of the sensor		nm	0
Type of light			Infrared light
Light dot		mm ²	0
AWG-number			22
Material of cable sheath			Other
With restart blockage			No
Suitable for safety functions			No
Degree of protection (IP)			IP67

Degree of protection (NEMA)			6
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