Diffuse reflective sensor, Sn=40mm, 4L, 10-30VDC, NPN, PNP, M18, insulated material, M12 $\,$



Part no. 13102AQD07 135593

General specifications	
Product name	Eaton Moeller® series E58 Diffuse reflective sensor
Part no.	13102AQD07
EAN	4015081323869
Product Length/Depth	127 millimetre
Product height	50.8 millimetre
Product width	152.4 millimetre
Product weight	0.3 kilogram
Certifications	CSA-C22.2 No. 14 UL File No.: E117028 CSA CSA File No.: 50513 CE IEC/EN 60947-5-2 CSA Class No.: 3211-07 UL Category Control No.: NRKH, NRKH7 UL UL 508
Product Tradename	E58
Product Type	Diffuse reflective sensor
Product Sub Type	None
Product Specification Details	
Adjustment type	Manual adjustment
Ambient operating temperature - max	70 °C
Ambient operating temperature - min	-40 °C
Cable sheath material	Polyvinyl chloride (PVC)
Connection type	Plug-in connection M12 x 1 4-wire
Degree of protection	IP67 NEMA 6
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	Focused, forward viewing beam
Functions	Reflected-light beam Protection against polarity reversal Short-circuit protection
Interface type	Other
Laser protection class	None
LED indicator	Status indication of Switching state: Red LED
Light dot size	0 mm ²
Light type	Visible red light Polarity free red light
Load current	Max. 100 mA (le, PNP) Max. 250 mA (le, NPN, 120 > 50°C)
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)	40 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	Other
Switching distance - max	40 mm
Switching frequency	500 Hz
Switching output type	PNP/NPN
Switching voltage of OSSD at state "high"	0 V
Transmission range of the safety field	0 m
Туре	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) / Diffuse reflective photoelectric sensor (EC001821)

Electric engineering, automation, process control engineering / Sensor technology, safety-related sensor technology / Optoelectronic sensor / Light scanner (ecl@ss13-27-27-09-03 [AKP252018])

ating distance	mm	0 - 0
ailure notice		
		No
time function		No
switching distance	mm	40
output current	mA	250
reflector		No
ogue output 0 V 10 V		No
ogue output 0 mA 20 mA		No
ogue output 4 mA 20 mA		No
ogue output -10 V +10 V		No
other analogue output		No
ng procedure		Manual adjustment
communication interface analogue		No
communication interface AS-Interface		No
communication interface CANOpen		No
communication interface DeviceNet		No
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/NPN
Type of switch function		Other
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
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	0
Voltage type		DC
With monitoring function downstream switching devices		No
Laser protection class		None
Wavelength of the sensor	nm	0
Type of light		Polarity free red light
Light dot	mm²	0
AWG-number		22
Material of cable sheath		Polyvinyl chloride (PVC)
With restart blockage		No
Suitable for safety functions		No
Degree of protection (IP)		IP67
Degree of protection (NEMA)		6
Ambient temperature	°C	-40 - 70
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
11.1		