Diffuse reflective sensor, Sn=50mm, 4L, 10-30VDC, NPN, PNP, M18, insulated material, M12 $\,$



Part no. 13104AQD07 13104AQD07

4315338

EL Number (Norway)

(Norway)	
General specifications	
Product name	Eaton Moeller® series E58 Diffuse reflective sensor
Part no.	13104AQD07
EAN	4015081323982
Product Length/Depth	127 millimetre
Product height	50.8 millimetre
Product width	152.4 millimetre
Product weight	0.094 kilogram
Certifications	cUL Recognized UL Recognized CE UL Category Control No.: NRKH, NRKH7 UL File No.: E117028 CSA Class No.: 3211-07 UL IEC/EN 60947-5-2 UL 508 CSA CSA File No.: 50513 CSA-C22.2 No. 14
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	M12
Connection type	4-wire Plug-in connection M12 x 1
Contact configuration	NPN and PNP open collector
Contact Rating	100 mA PNP, 250 mA NPN at 10-30 Vdc
Degree of protection	NEMA 6 IP67
Diameter sensor	18 mm
EL number	4315338
Electric connection type	Connector M12
Enclosure material	Polyurethane foam (RIM) Plastic
Enclosure type	Cylinder, screw-thread
Environmental rating	NEMA 1, NEMA 3, NEMA 4, NEMA 4X, NEMA 6, NEMA 12, NEMA 13, IP69K
Explosion safety category for dust	None
Explosion safety category for gas	None
Features	Straight beam
Fitted with:	Background suppression (Perfect Prox)
Functions	Protection against polarity reversal Short-circuit protection Reflected-light beam
Input voltage	10-30 Vdc
Interface type	Other

Laser protection class	None
LED indicator	Output ON Status indication of Switching state: Red LED
Light dot size	0 mm ²
Light type	Polarity free red light
Load current	Max. 100 mA (Ie, PNP) Max. 250 mA (Ie, NPN, 120 > 50°C)
Maximum DC current	100 mA PNP, 250 mA NPN
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
Number of pins	4
Operating distance - max	0 mm
Operating distance - min	0 mm
Operating mode	Switching principle: Adjustable bright/dark switching
Operating temperature - max	158 °F
Operating temperature - min	-40 °F
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
Protection	Auto reset short circuit
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)	50 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 Sensor material	Insulated material
Sensor type	Back ground suppression
Series	Comet
Shock resistance	100 g, Mechanical, Shock duration 3 ms
Switch function type	Programmable/configurable
Switching distance - max	50 mm
Switching frequency	500 Hz
Switching output type	PNP/NPN
Switching voltage of OSSD at state "high"	30 V
Transmission range of the safety field	0 m
Triangulation	Background fade-out
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) / 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 Adjustment range mm 0 - 0 Operating distance 0 - 0 mm Background fade-out Triangulation Pre failure notice No With time function Nο Rated switching distance mm 50 Max. switching distance mm 50 Max. output current mΑ 250 With reflector No Analogue output 0 V ... 10 V No No Analogue output 0 mA ... 20 mA Analogue output 4 mA ... 20 mA No No Analogue output -10 V ... +10 V No With other analogue output Other Setting procedure 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 Nο 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 0 Number of protected contact energized outputs Other Type of interface for safety communication Type of electric connection Connector M12 Type of switching output PNP/NPN Type of switch function Programmable/configurable Operation agent-safety class Safety class 2 None Explosion safety category for gas Explosion safety category for dust None Construction type housing Cylinder, screw-thread Width sensor 0 mm Diameter sensor 18 mm 0 Height of sensor mm Length of sensor mm 66 Sensing mode Light-/dark switching Material of optical surface Plastic Plastic Housing material 0 Max. output current at protected output mΑ Min. reflector distance 0 mm °C -40 - 70 Ambient temperature Response time ms 1 Transmission range of the safety field m 0

Hz

500

Switching frequency

	1
V	30
V	0 - 0
V	0 - 0
V	10 - 30
	DC
	No
	None
nm	0
	Polarity free red light
mm²	0
	22
	Other
	No
	No
	IP67
	6
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