

**Retroreflective sensing sensor, Sn=18m, 4L, 10-30VDC, dark, NPN, PNP,
M30, metal, line 2m**

**Part no. E58-30RS18-HD
135688**

General specifications		
Product name		Eaton Moeller® series E58 Retroreflective sensor
Part no.		E58-30RS18-HD
EAN		4015081324811
Product Length/Depth		165.1 millimetre
Product height		44.45 millimetre
Product width		165.1 millimetre
Product weight		0.23 kilogram
Certifications		CE UL Category Control No.: NRKH, NRKH7 Certified by UL for use in Canada UL File No.: E166051 IEC/EN 60947-5-2 CSA-C22.2 No. 14 UL 508 UL CSA File No.: UL report applies to both US and Canada
Product Tradename		E58
Product Type		Retroreflective sensor
Product Sub Type		None
Product Specification Details		
Adjustment type		Other
Ambient operating temperature - max		55 °C
Ambient operating temperature - min		-40 °C
Connection type		2 m connection cable 4-wire
Degree of protection		NEMA 6P, 13 IP68
Diameter sensor		30 mm
Electric connection type		Cable
Enclosure material		Metal
Enclosure type		Cuboid
Explosion safety category for dust		None
Explosion safety category for gas		None
Functions		Protection against polarity reversal Protection against wire breakage For combination with reflector Short-circuit protection Reflected-light beam
Interface type		Other
Laser protection class		None
LED indicator		Status indication of Switching state: Red LED
Light dot size		0 mm ²
Light type		Other
Load current		Max. 100 mA (Ie)
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 mode		Switching principle: Dark switching
Optical surface material		Glass
Output current (mA) - max		100 mA
Output current at protected output - max		0 mA

Product category			E58 Harsh Duty 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)			18000 mm
Reflector distance - min			0 mm
Response time			1.6 ms
Safety type (IEC 61496-1)			1
Sensing mode			Dark switching
Sensor height			0 mm
Sensor length			111 mm
Sensor material			Stainless steel
Shock resistance			100 g, Mechanical, Shock duration 3 ms
Switch function type			Other
Switching distance - max			0 mm
Switching frequency			312 Hz
Switching output type			PNP/NPN
Switching voltage of OSSD at state "high"			30 V
Transmission range of the safety field			0 m
Type			Optical sensors
Voltage rating - max			30 V
Voltage type			DC
Wavelength of the sensor			0 nm
Width sensor			0 mm

Technical data ETIM 9.0

Sensors (EG000026) / Retroreflective photoelectric sensor (EC002717)			
Electric engineering, automation, process control engineering / Sensor technology, safety-related sensor technology / Optoelectronic sensor / Reflection light barrier (ecl@ss13-27-27-09-02 [AKP251018])			
Pre failure notice			No
With time function			No
Rated switching distance		mm	18000
Max. switching distance		mm	0
Max. output current		mA	100
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			Cable
Type of switching output			PNP/NPN
Type of switch function			Other
Operation agent-safety class			
Explosion safety category for gas			None
Explosion safety category for dust			None
Construction type housing			Cuboid
Width sensor		mm	0
Diameter sensor		mm	30
Height of sensor		mm	0
Length of sensor		mm	111
Sensing mode			Dark switching
Material of optical surface			Glass
Housing material			Metal
Max. output current at protected output		mA	0
Min. reflector distance		mm	0
Ambient temperature		°C	-40 - 55
Response time		ms	
Transmission range of the safety field		m	0
Switching frequency		Hz	312
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			Other
Light dot		mm ²	0
With restart blockage			No
Suitable for safety functions			No
Degree of protection (IP)			IP68
Degree of protection (NEMA)			6P, 13