



Thru-beam photoelectric sensor, receiver, Sn=250m, 4L, 10-30VDC, light, NPN, PNP, M30, metal



Part no. E58-30TD250-HLP

135695

EL Number

4315350

(Norway)

General specifications		
Product name		Eaton Moeller® series E58 Thru-beam photoelectric sensor
Part no.		E58-30TD250-HLP
EAN		4015081324880
Product Length/Depth		228.6 millimetre
Product height		44.45 millimetre
Product width		165.1 millimetre
Product weight		0.2 kilogram
Certifications		UL UL File No.: E166051 CSA File No.: UL report applies to both US and Canada CSA-C22.2 No. 14 UL 508 CE Certified by UL for use in Canada IEC/EN 60947-5-2 UL Category Control No.: NRKH, NRKH7
Product Tradename		E58
Product Type		Thru-beam photoelectric sensor
Product Sub Type		None
Product Specification Details		
Adjustment type		Other
Ambient operating temperature - max		55 °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		NEMA 6P IP68
Device type		Receiver
Diameter sensor		30 mm
EL number		4315350
Electric connection type		Connector M12
Enclosure material		Metal
Enclosure type		Cylinder, screw-thread
Explosion safety category for dust		None
Explosion safety category for gas		None
Functions		Short-circuit protection Protection against polarity reversal Protection against wire breakage Detector (for combination with source) Thru-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
Opening angle		0 °

Operating mode		Switching principle: Light switching
Operation agent-safety class		Safety class 2
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)		250000 mm
Reflector distance - min		0 mm
Response time		1 ms
Safety type (IEC 61496-1)		1
Sensing mode		Light 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
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
Wire size		0

Technical data ETIM 9.0

Sensors (EG000026) / Through beam photoelectric sensor (EC002716)

Electric engineering, automation, process control engineering / Sensor technology, safety-related sensor technology / Optoelectronic sensor / One-way light barrier (ecl@ss13-27-27-09-01 [AKP250018])

Scope of delivery of the one-way system		Receiver
Max. opening angle	°	0
Pre failure notice		No
With time function		No
Rated switching distance	mm	250000
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		Connector M12
Type of switching output		PNP
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	30
Height of sensor	mm	0
Length of sensor	mm	111
Sensing mode		Light 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	1
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
AWG-number		0
Material of cable sheath		Polyvinyl chloride (PVC)
With restart blockage		No
Suitable for safety functions		No
Degree of protection (IP)		IP68
Degree of protection (NEMA)		6P