

Retroreflective sensing sensor, Sn=3m, 4L, 10-30VDC, light, NPN, PNP, quad 40, insulated material, line 2m



Powering Business Worldwide™

Part no. **E65-SMPR3-HL**  
**135720**

General specifications		
Product name		Eaton Moeller® series E65 Retroreflective sensor
Part no.		E65-SMPR3-HL
EAN		4015081325139
Product Length/Depth		139.7 millimetre
Product height		139.7 millimetre
Product width		38.1 millimetre
Product weight		0.11 kilogram
Certifications		UL File No.: E166051 CSA-C22.2 No. 14 UL Category Control No.: NRKH, NRKH7 UL CSA File No.: UL report applies to both US and Canada Certified by UL for use in Canada IEC/EN 60947-5-2 UL 508 CE
Product Tradename		E65
Product Type		Retroreflective sensor
Product Sub Type		None
Product Specification Details		
Adjustment type		Other
Ambient operating temperature - max		55 °C
Ambient operating temperature - min		-25 °C
Ambient storage temperature - max		70 °C
Ambient storage temperature - min		-25 °C
Catalog Notes		Yellow
Connection type		2 m connection cable 4-wire
Degree of protection		IP68 NEMA 6P, 13
Diameter sensor		0 mm
Electric connection type		Cable
Enclosure material		Plastic
Enclosure type		Cuboid
Explosion safety category for dust		None
Explosion safety category for gas		None
Features		Polarized light
Functions		Protection against wire breakage For combination with reflector Protection against polarity reversal Reflected-light beam Short-circuit protection
Interface type		Other
Laser protection class		None
LED indicator		Status indication of Switching state: Red LED Status indication of Operating voltage: Green LED
Light dot size		0 mm <sup>2</sup>
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: Light switching
Operating temperature - max		55 °C
Operating temperature - min		-25 °C
Operational current (Ib) in the switched state at 24 V DC		20 A
Optical surface material		Plastic
Output current (mA) - max		100 mA
Output current at protected output - max		0 mA
Product category		E65 SM 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)		3000 mm
Reflector distance - min		0 mm
Response time		1 ms
Safety type (IEC 61496-1)		1
Sensing mode		Light switching
Sensor height		43 mm
Sensor length		41 mm
Sensor material		Insulated material
Shock resistance		50 g, Mechanical, Shock duration 10 ms
Switch function type		Other
Switching distance - max		0 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
Type		Optical sensors
Voltage rating - max		30 V
Voltage type		DC
Wavelength of the sensor		660 nm
Width sensor		33 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	3000
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	33
Diameter sensor	mm	0
Height of sensor	mm	43
Length of sensor	mm	41
Sensing mode		Light 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	-25 - 55
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	660
Type of light		Other
Light dot	mm <sup>2</sup>	0
With restart blockage		No
Suitable for safety functions		No
Degree of protection (IP)		IP68
Degree of protection (NEMA)		6P, 13