DATASHEET - E65-SMPP050-HL

Diffuse reflective sensor, Sn=50mm, 4L, 10-30VDC, light, NPN, PNP, quad 40, insulated material, line 2m

Powering Business Worldwide™

Part no. E65-SMPP050-HL
135704

General specifications

Product name	Eaton Moeller® series E65 Diffuse reflective sensor
Part no.	E65-SMPP050-HL
EAN	4015081324972
Product Length/Depth	139.7 millimetre
Product height	139.7 millimetre
Product width	38.1 millimetre
Product weight	0.11 kilogram
Certifications	CSA File No.: UL report applies to both US and Canada UL Category Control No.: NRKH, NRKH7 CSA-C22.2 No. 14 UL 508 UL File No.: E166051 IEC/EN 60947-5-2 UL CE Certified by UL for use in Canada
Product Tradename	E65
Product Type	Diffuse reflective sensor
Product Sub Type	None

Product Specification Details

Adjustment range - max	50 mm
Adjustment range - min	0 mm
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
Cable sheath material	Polyvinyl chloride (PVC)
Catalog Notes	Yellow
Connection type	2 m connection cable 4-wire
Degree of protection	IP68 NEMA 6
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
Fitted with:	Background suppression (Perfect Prox)
Functions	Protection against polarity reversal Short-circuit protection Reflected-light beam Protection against wire breakage
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^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)			1
Operating distance - max			0 mm
Operating distance - min			0 mm
Operating mode			Switching principle: Light switching
Operating temperature - max			55 °C
Operating temperature - min			-25 °C
Operation agent-safety class			Safety class 2
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)			50 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			50 mm
Switching frequency			500 Hz
Switching output type			PNP
Switching voltage of OSSD at state "high"			30 V
Transmission range of the safety field			0 m
Triangulation			Background fade-out
Type			Optical sensors
Voltage rating - max			30 V
Voltage type			DC
Wavelength of the sensor			660 nm
Width sensor			33 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 [AKP252018])

Adjustment range		mm	0 - 50
Operating distance		mm	0 - 0
Triangulation			Background fade-out
Pre failure notice			No
With time function			No
Rated switching distance		mm	50
Max. switching distance		mm	50
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		1
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
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		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^2	0
AWG-number		22

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)			6