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



Part no. E65-SMPP050-HL 135704

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
oduct 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
Degree of protection	4-wire  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 <sup>2</sup>
Light type	Other
Load current	Max. 100 mA (le)

Number of outputs (protected contact energized)	0
Number of outputs (protected conductor)	0
Number of outputs (protected semiconductor)  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 -25 °C
Operating temperature - min	
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
Туре	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**

Toolilloar data ETTIN 5.0					
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	nm 0 - 50			
Operating distance	mm	m 0 - 0			
Triangulation		Background fade-out			
Pre failure notice		No			
With time function		No			
Rated switching distance	mm	m 50			
Max. switching distance	mm	m 50			
Max. output current	mA	A 100			
With reflector		No			

Analogue output 0 mA 20 mA Analogue output 4 mA 20 mA Analogue output 4 mA 20 mA Analogue output 1 mV 10 V With other analogue output With communication interface analogue With communication interface analogue With communication interface AS-Interface With communication interface AS-Interface With communication interface ENOROgen With communication interface DelevieNet With communication interface POEPINS With communication interface POEPINS With communication interface POEPINS With communication interface SPOEPINS With communication interfac	Analogue output 0 V 10 V		No
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With communication interface NTERBUS         In No.           With communication interface RS-222         In No.           With communication interface RS-423         In No.           With communication interface RS-428         In No.           Will c	With communication interface DeviceNet		No
With communication interface PROPRIUS         Image: I	With communication interface Ethernet		No
With communication interface RS-222         No           With communication interface RS-427         No           With communication interface SSD         No           With communication interface SSD         No           With communication interface SSD         1           With communication interface SSD         1           Number of a principate of signaling function         2         1           Number of provided computs with signaling function         6         0           Number of provided computs with signaling function         6         0           Number of provided computs with signaling function         6         0           Number of provided computs with signaling function         6         0           Type of interface for safety communication         6         0           Type of interface for safety communication         7         0           Type of savety cannety of type of safety safety	With communication interface INTERBUS		No
With communication interface RS-422         No           With communication interface RS-485         No           With communication interface SSI         No           With communication interface SSI         1           Number of postacted contract renigency analysis with signalling function         2         0           Number of postacted contact centragenery analysis with signalling function         2         0           Number of postacted contact centry and signalling function         3         0           Number of postacted contact centry and signalling function         4         0           Number of postacted contact centry and signalling function         4         0           Type of reflected series device connection         4         0           Type of reflected series device connection         4         0           Type of selectic connection         4         0         0           Operation agent-selectic connection         4         0         0           Construction type bossing         4         0         0           W	With communication interface PROFIBUS		No
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With communication interface \$SO         No           With communication interface \$SI         No           Number of anniconductor outputs with signalling function         0           Number of princeded semiconductor outputs with signalling function         0           Number of princeded semiconductor outputs         0           Number of princeded contracting outputs with signalling function         0           Type of indicates or safety communication         0           Obertaction         0           Obertaction         0           Operation agent safety yellows         0           Obertaction of the properties of the safety of safety or category for gas         0           Subjection safety category for gas         0           Leaghty of sansor         mm         4	With communication interface RS-422		No
With communication interface SSI         Na           Number of consecded contract energized outputs with signalling function         1           Number of protected semiconductor outputs         2           Number of protected connect energized outputs         0           Type of interface for safety communication         2           Type of interface for safety communication         2           Type of selectic connection         4           Type of selectic function         5           Depleasing selectic function         6           Explosion safety category for gas         6           Explosion safety category for dust         6           Construction type housing         7           Width sensor         mm         3           Length of sensor         mm         4	With communication interface RS-485		No
Number of peniconductor outputs with signalling function Number of protected contact congress outputs with signalling function Number of protected contact congress outputs Type of interface for safety communication Type of interface for safety communication Type of interface for safety communication Type of switch function Operation agent-safety class Caption agent-safety class Caption agent-safety class Caption safety category for gus Caption safety category for dust Construction type housing Width sensor Insert of protected outputs Width sensor Insert of protected output Width sensor Inse	With communication interface SSD		No
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Number of protected contact energized outputs         0           Type of inferace for safety communication         Cable           Type of switchir connection         PNP           Type of switching outputy         PNP           Type of switching outputy         Cheer           Type of switching outputy         Selections and the control of the contro	Number of contact energized outputs with signalling function		0
Type of interface for safety communication         Cable           Type of electric connection         PNP           Type of switching output         Other           Opparation agent-safety class         Safety class 2           Explosion safety category for gas         None           Explosion safety category for fuest         None           Construction type housing         Imm         33           Diameter sensor         mm         33           Diameter sensor         mm         43           Hoight of sensor         mm         43           Sensing mode         Imp         44           Housing naterial         Imp         45           Max. output current at protected output         mA         9           Sexploses time         ma         9           Response time         ma         9           Switching requency <td< td=""><td>Number of protected semiconductor outputs</td><td></td><td>0</td></td<>	Number of protected semiconductor outputs		0
Type of electric connection         Cable           Type of switching output         PNP           Type of switch function         Chery of Switch function           Operation agent-safety class         State place 2           Explosion safety category for gas         Hone           Explosion safety category for dust         Hone           Construction type housing         To biolid           Width sensor         mm         3           Beight of sensor         mm         4           Length of sensor         mm         4           Switching author         Plastic           Max. output current at protected output         ma         9           Max. output current at protected output         ma         9           Max. number temperature         ma         9           Response time         ms         1           Response time         ms         9           Response time         ms         9           Switching requercy         ps         9           Switching requercy         ps         9           Switching voltage of OSSD at state high*         y         9           Sated control supply voltage ALS OHz         y         0           Rated control supply v	Number of protected contact energized outputs		0
Type of switching output         HPP           Type of switch function         6	Type of interface for safety communication		Other
Type of switch function         Other           Operation agont-safety class         Safety class 2           Explosion safety category for gas         None           Explosion safety category for dust         Cubbid           Construction type housing         Immode the safety category for dust           Width sensor         Immode the safety category for dust         Immode the safety category for dust           Construction type housing         Immode the safety category for dust         Immode the safety category for dust           Diameter a sensor         Immode the safety for the sensor         Immode the safety for the sensor         Immode the safety for the safety field         Immode the safety for the safety field         Immode the safety field for the safety field         Immode the safety field for the safety field         Immode the safety field for the safety field for the safety field         Immode the safety field for the saf	Type of electric connection		Cable
Operation agent-safety class         Safety class 2           Explosion safety category for gas         None           Explosion safety category for dust         Cubold           Construction type housing         Imm         33           Diameter sensor         Imm         43           Height of sensor         Imm         43           Langth of sensor         Imm         44           Sensing mode         Imm         44           Material of optical surface         Imm         40           Housing material         Imm         40           Max. output current at protected output         Imm         40           Min. reflector distance         Imm         40           Ambient temperature         Imm         40           Sesponse time         Imm         40           Transmission range of the sefety field         Imm         40           Switching frequency         Imm         40           Type of sefety decel deserty field         Imm         40           Switching voltage of DSD at state "high"         V         40           Rated control supply voltage AC 80 Hz         V         0           Rated control supply voltage AC 80 Hz         V         0	Type of switching output		PNP
Explosion safety category for gas         None           Explosion safety category for dust         Chobid           Construction type housing         Cuboid           Width sensor         mm         33           Diameter sensor         mm         43           Length of sensor         mm         43           Sensing mode         Light switching           Material of optical surface         Plastic           Housing material         mA         0           Max. output current at protected output         mA         0           Min. reflector distance         mm         0           Max. output current at protected output         mA         0           Min. reflector distance         mm         0           Response time         mS         1           Transmission range of the safety field         mS         1           Switching requency         HZ         500           Switching voltage of OSSO at state "ibp"         V         3           Rated control supply voltage AC 50 Hz         V         0         0           Rated control supply voltage AC 50 Hz         V         0         0           Rated control supply voltage AC 50 Hz         V         0         0	Type of switch function		Other
Explosion safety category for dust         None           Construction type housing         Cuboid           Width sensor         mm         33           Diameter sensor         mm         43           Length of sensor         mm         41           Sensing mode         mm         41           Material of optical surface         mm         41           Housing material         mm         9 lestic           Max. output current at protected output         mA         0           Max. output current at protected output         mA         0           Max. privature         mA         0           Response time         mA         0           Transmission range of the safety field         mS         1           Switching frequency         MS         0           Switching requency         MS         0           Switching voltage of OSSD at state "high"         V         30           Rated control supply voltage AC 50 Hz         V         0         0           Rated control supply voltage AC 50 Hz         V         0         0           Rated control function downstream switching devices         M         None           With monitoring function downstream switching devices	Operation agent-safety class		Safety class 2
Construction type housing         Cubid           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         mm         0           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         ms         1           Switching frequency         m         500           Type of safety according to IEC 61486-1         y         30           Switching voltage of OSSD at state "high"         V         30           Rated control supply voltage AC 50 Hz         V         0-0           Rated control supply voltage AC 50 Hz         V         0-0           Rated control supply voltage AC 50 Hz         V         0-0           Rated control supply voltage AC 50 Hz         N         N           Rated contr	Explosion safety category for gas		None
With sensor         mm         33           Diameter sensor         mm         0           Height of sensor         mm         43           Sensing mode         mm         41           Material of optical surface         mm         41 pustic           Housing material         plastic           Max. output current at protected output         mA         0           Min. reflector distance         mm         0           Ambient temperature         CC         25 - 55           Response time         ms         1           Transmission range of the safety field         m         0           Switching frequency         M2         30           Type of safety according to IEC 61486-1         m         0           Switching voltage of OSSD at state "high"         V         30           Rated control supply voltage AC 50 H2         V         0 - 0           Rated control supply voltage AC 50 H2         V         0 - 0           Rated control supply voltage AC 50 H2         V         0 - 0           Rated control supply voltage AC 50 H2         V         0 - 0           Rated control supply voltage AC 50 H2         V         0 - 0           Rated control supply voltage AC 50 H2	Explosion safety category for dust		None
Diameter sensor         mm         43           Length of sensor         mm         41           Sensing mode         Light switching           Material of optical surface         Light switching           Housing material         mA         Plastic           Max. output current at protected output         mA         0           Min. reflector distance         mA         0           Ambient temperature         "C         25 55           Response time         m         0           Transmission range of the safety field         mS         1           Switching frequency         M2         500           Type of safety according to IEC 61496-1         V         30           Switching voltage of OSSD at state "high"         V         30           Rated control supply voltage AC 60 Hz         V         0-0           Rated control supply voltage AC 60 Hz         V         0-0           Rated control supply voltage AC 60 Hz         V         0-0           With monitoring function downstream switching devices         V         0-0           Laser protection class         Mone         0-0           Wavelength of the sensor         Mone         0-0           Type of light         Mone <td>Construction type housing</td> <td></td> <td>Cuboid</td>	Construction type housing		Cuboid
Height of sensor         mm         43           Length of sensor         mm         41           Sensing mode         Length of sensor         Length of sensor         Length switching           Material of optical surface         Plastic           Housing material         mm         9           Max. output current at protected output         mm         0           Min. reflector distance         mm         0           Ambient temperature         °C         25-55           Response time         mm         0           Transmission range of the safety field         mm         0           Switching frequency         Hz         500           Type of safety according to IEC 61496-1         V         30           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         0-0           Voltage type         With monitoring function downstream switching devices         V         0-0           With monitoring function class         Mm         60           Wavelength of the sensor         Mm	Width sensor	mm	33
Length of sensor         mm         41           Sensing mode         Light switching           Material of optical surface         Plastic           Housing material         mm         0           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         ms         1           Switching frequency         Hz         500           Type of safety according to IEC 61496-1         V         0         0           Switching frequency         V         0         0           Switching         V         0         0           Rated control supply voltag	Diameter sensor	mm	0
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         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         0 - 30           Voltage type         DC         0           With monitoring function downstream switching devices         None         None           Laser protection class         None         60           Wavelength of the sensor         nm         60           Type of light         mm²         0         0	Height of sensor	mm	43
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         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         0 - 30           Voltage type         DC         0           With monitoring function downstream switching devices         None         None           Laser protection class         None         60           Wavelength of the sensor         nm         60           Type of light         mm²         0         0	Length of sensor	mm	41
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         V         30           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         0           With monitoring function downstream switching devices         N         None           Laser protection class         Mne         660           Wavelength of the sensor         mm         660           Type of light         mm         600	Sensing mode		Light switching
Housing material  Max. output current at protected output  Min. reflector distance  Min. reflector distance  Ambient temperature  Response time  Response time  ms 1  Transmission range of the safety field  m 0  0  Switching frequency  Type of safety according to IEC 61496-1  Switching voltage of OSD at state "high"  V 0  Switching voltage of OSD at state "high"  V 0  Rated control supply voltage AC 50 Hz	Material of optical surface		
Max. output current at protected output  Min. reflector distance  Ambient temperature  Response time  Response time  Response time  Response time  Response time  Min. of the safety field  Min. of the	Housing material		Plastic
Min. reflector distance mm 0 Ambient temperature cccccccccccccccccccccccccccccccccccc	·	mΑ	0
Ambient temperature colors after temperature colors ime colors after time colors aft			
Response time ms 1 Transmission range of the safety field mm 0 Switching frequency Hz 500 Type of safety according to IEC 61496-1 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 AC 60 Hz V 0-0 With monitoring function downstream switching devices DC With monitoring function downstream switching devices None Wavelength of the sensor Mayelength of the sensor Type of light	Ambient temperature		
Transmission range of the safety field m b bottle safety field m b bottle safety field bottle safety according to IEC 61496-1	·		
Switching frequency Type of safety according to IEC 61496-1  Switching voltage of OSSD at state "high"  Rated control supply voltage AC 50 Hz  Rated control supply voltage AC 60 Hz  Rated control supply voltage DC  Voltage type  Voltage typ			
Type of safety according to IEC 61496-1  Switching voltage of OSSD at state "high"  Rated control supply voltage AC 50 Hz  Rated control supply voltage AC 60 Hz  Rated control supply voltage AC 60 Hz  V  0 - 0  Rated control supply voltage DC  Voltage type  V  10 - 30  C  With monitoring function downstream switching devices  Laser protection class  Wavelength of the sensor  Type of light  Light dot  10  10  10  10  10  10  10  10  10  1			
Switching voltage of OSSD at state "high"  Rated control supply voltage AC 50 Hz  Rated control supply voltage AC 60 Hz  Rated control supply voltage DC  Voltage type  Voltage type  Voltage type  Voltage ryotection class  Volt			
Rated control supply voltage AC 50 Hz  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  Laser protection class  Wavelength of the sensor  Type of light  Light dot  V  0 - 0  0 -		V	
Rated control supply voltage AC 60 Hz  Rated control supply voltage DC  Voltage type  Voltage type  With monitoring function downstream switching devices  Laser protection class  Wavelength of the sensor  Type of light  Light dot  V 0 0 0  N 0 0  No  No  No  No  Other			
Rated control supply voltage DC  Voltage type  With monitoring function downstream switching devices  Laser protection class  Wavelength of the sensor  Type of light  Light dot  Light dot	11.1		
Voltage type  Voltage type  With monitoring function downstream switching devices  Laser protection class  Wavelength of the sensor  Type of light  Light dot  DC  No  No  660  Other  Other			
With monitoring function downstream switching devices  Laser protection class  Wavelength of the sensor  Type of light  Light dot  No  No  No  660  Other  Other		V	
Laser protection class Wavelength of the sensor Type of light Light dot None None 660 Other Other			
Wavelength of the sensor     nm     660       Type of light     Other       Light dot     mm²     0			
Type of light Light dot Other  Other  Other			
Light dot mm² 0	-	nm	
		?	
AWG-number ZZ		mm <sup>*</sup>	
	AVVU-TIUIII00EF		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