

Proximity switch, optical, long range 190cm, 18-30VDC, NPN, PNP, light, micro



Part no. E67-LRDP190-HLD Article no. 100566 Catalog No. E67-LRDP190-HLD

	gram

- 7 P - 3			
Basic function			Optical sensors
Product range			E67 Long Range Series
For connection of:			Plug-in connection M12 x 1
Design (outer dimensions)		mm	Rectangular (166 x 59 x 43)
Rated operational voltage	U _e		18 – 30 V DC
Rated switching distance	S_n	mm	1900
Description			with background suppression (Perfect Prox)
Connection			4-wire
Function			Reflected-light beam
Type of light			Infra-red
Switching type			NPN PNP
Switching principle			Light switching

Technical data

General

Ambient temperature			-35 - +55
Operation	9	°C	-35 - +55
Storage	θ	°C	-40 - +70
Mechanical shock resistance		g	30 Shock duration 6 ms
Degree of Protection			IP67
Vibration			10 g (10 Hz - 2 kHz)

Characteristics

Rated switching distance			
Rated switching distance	S_n	mm	1900
Rated operational voltage	U _e		18 – 30 V DC
Maximum load current	l _e	mA	< 100
Response time		ms	15
Switching state display		LED	Red
Operating voltage display		LED	Green
Connection			4-wire
Style			
Design (outer dimensions)		mm	Rectangular (166 x 59 x 43)
For connection of:			Plug-in connection M12 x 1

Design verification as per IEC/EN 61439

Technical data for design verification		
Operating ambient temperature min.	°C	-35
Operating ambient temperature max.	°C	55

Technical data ETIM 6.0

Sensors (EG000026) / Light scanne	r with background masking (EC002719)
ochisors (Edooodzo) / Eight scumic	i with background masking (£0002713)

Electric engineering, automation, process control engineering / Binary sensor technology, safety-related sensor technology / Optoelectronic sensor / Light scanner w. background masking (ecl@ss8.1-27-27-09-04 [AKP253010])

(ecl@ss8.1-27-27-09-04 [AKP253010])			
Adjustment range	mm	m	0 - 1900
Operating distance	mm	m	0 - 0
Triangulation			Background fade-out
Pre failure notice			No

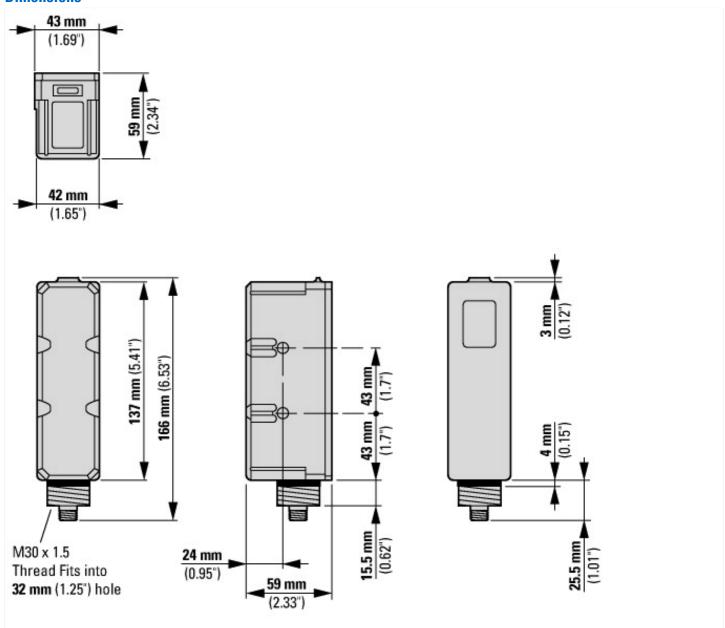
With time function M No Rated switching distance mm 200 Max. switching distance mA 200 Max. cutput current mA 100 Reflector included MA 100 Analogue output 0 M 20 mA MA No Analogue output 0 M 20 mA MA No Analogue output 1 MV 40 MA MA No With other analog output MA No Stating procedure MA No With other analog output MA No With communication interface analog MA No With communication interface As-Interface MA No With communication interface As-Interface MA No With communication interface Etheret MA No With communication interface RS-422 No No With comm	
Max. switching distance mm 2200 Max. output current nA 100 Reflector included No No Analogue output 0 V 10 V No No Analogue output 0 M 20 mA No No Analogue output 10 V 410 V No No With other analog output 10 V 410 V No No With other analog output 10 V 410 V No No With other analog output 10 V 410 V No No With communication interface assign No No With communication interface AS-Interface No No With communication interface EANDpen No No With communication interface EVENTERUS No No With communication interface Ethrent No No With communication interface ENFERBUS No No With communication interface PROFIBUS No No With communication interface RS-422 No No With communication interface RS-485 No No With communication interface RS-485	
Max. output current mA 100 Reflector included 4 No Analogue output 0 V — 10 V No No Analogue output 0 mA — 20 mA No No Analogue output 4 mA — 20 mA No No Analogue output 4 mA — 20 mA No No Analogue output 4 mA — 20 mA No No With other analog output No No Setting procedure No No With communication interface analog No No With communication interface EANOpen No No With communication interface EANOpen No No With communication interface ENTERBUS No No With communication interface ENTERBUS No No With communication interface PROFIBUS No No With communication interface RS-232 No No With communication interface RS-422 No No With communication interface RS-425 No No With communication interface RS-425 No No <tr< td=""><td></td></tr<>	
Reflector included No Analogue output 0 V 10 V No Analogue output 0 m A 20 mA No Analogue output 4 m A 20 mA No Analogue output 1-10 V +10 V No With offer analog output No Setting procedure - With communication interface analog No With communication interface AS-Interface No With communication interface CANOpen No With communication interface BeviceNet No With communication interface INTERBUS No With communication interface PROFIBUS No With communication interface PROFIBUS No With communication interface RS-422 No With communication interface RS-425 No With communication interface RS-485 <	
Analogue output 0 V 10 V Analogue output 0 m A 20 m A Analogue output 4 m A 20 m A Analogue output 4 m A 20 m A Analogue output 1 n 0 V + 10 V With other analog output Setting procedure With communication interface analog With communication interface AS-Interface With communication interface DeviceNet With communication interface DeviceNet With communication interface Brefret With communication interface Profibus With communication interface RS-232 With communication interface RS-232 With communication interface RS-422 With communication interface RS-422 With communication interface RS-422 With communication interface RS-485 No	
Analogue output 0 mA 20 mA Analogue output 4 mA 20 mA Analogue output 4 mA 20 mA Analogue output 4 mA 20 mA Analogue output 1 v v +10 v With other analog output With other analog output With communication interface analog With communication interface AS-Interface With communication interface CANOpen With communication interface CANOpen With communication interface Ethernet With communication interface Ethernet No With communication interface Ethernet No With communication interface PROFIBUS No With communication interface PROFIBUS No With communication interface RS-232 With communication interface RS-422 No With communication interface RS-425 No With communication interface RS-485 No With communication interface RS-485 No With communication interface SSI No	
Analogue output 4 mA 20 mA Analogue output -10 V +10 V With other analog output Setting procedure With communication interface analog With communication interface CANOpen With communication interface Ethernet No With communication interface Ethernet No With communication interface Ethernet No With communication interface RS-232 No With communication interface RS-232 No With communication interface RS-242 No With communication interface RS-485 No With communication interface SSD No With communication interface SSI No With communication interface SSI No With communication interface RS-201 No With communication interface SSI No No Number of semiconductor outputs with signalling function Number of contact energized outputs with signalling function Number of protected semiconductor outputs Number of protected semiconductor outputs Number of protected contact energized outputs	
Analogue output -10 V +10 V With other analog output Setting procedure Vith communication interface analog With communication interface AS-Interface With communication interface CANOpen With communication interface DeviceNet With communication interface Ethernet With communication interface Ethernet No With communication interface PROFIBUS No With communication interface RS-232 No With communication interface RS-232 No With communication interface RS-422 No With communication interface RS-425 No With communication interface SSD No With communication interface SSD No With communication interface SSI No No With communication interface SSI No No Number of semiconductor outputs with signalling function Number of protected semiconductor outputs Number of protected semiconductor outputs Number of protected contact energized outputs Numb	
With other analog output Setting procedure With communication interface analog With communication interface AS-Interface With communication interface AS-Interface With communication interface CANOpen With communication interface DeviceNet With communication interface Ethernet With communication interface Ethernet With communication interface PROFIBUS With communication interface PROFIBUS With communication interface RS-232 With communication interface RS-422 With communication interface RS-425 With communication interface RS-485 No With communication interface RS-485 No With communication interface SSI No With communication interface SSI No Number of senticonductor outputs with signalling function Number of contact energized outputs with signalling function Number of protected semiconductor outputs Number of protected semiconductor outputs Number of protected contact energized outputs Type of interface for safety communication	
Setting procedure With communication interface analog With communication interface AS-Interface With communication interface CANOpen With communication interface DeviceNet With communication interface Ethernet No With communication interface INTERBUS No With communication interface PROFIBUS With communication interface PROFIBUS With communication interface RS-232 With communication interface RS-232 With communication interface RS-422 No With communication interface RS-425 With communication interface RS-405 With communication interface RS-405 With communication interface RS-405 With communication interface SID With communication interface SID With communication interface SII No Number of semiconductor outputs with signalling function Number of protected semiconductor outputs Number of protected semiconductor outputs Type of interface for safety communication	
With communication interface CANOpen With communication interface Ethernet With communication interface Ethernet With communication interface Ethernet 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-425 No With communication interface RS-485 No No No With communication interface RS-485 No No No With communication interface RS-485 No	
With communication interface AS-Interface With communication interface DeviceNet With communication interface DeviceNet With communication interface Ethernet With communication interface INTERBUS With communication interface RS-023 With communication interface RS-232 No With communication interface RS-232 No With communication interface RS-242 No With communication interface RS-485 No With communication interface RS-485 No With communication interface SSD With communication interface SSD With communication interface SSI No No Number of semiconductor outputs with signalling function 2 Number of protected semiconductor outputs Number of protected semiconductor outputs Number of protected contact energized outputs Type of interface for safety communication	
With communication interface CANOpen With communication interface DeviceNet With communication interface Ethernet 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-422 No With communication interface SS-425 No With communication interface SSD No With communication interface SSI No No Number of semiconductor outputs with signalling function Number of protected semiconductor outputs Number of protected semiconductor outputs O Number of protected contact energized outputs O Number of protected contact energized outputs O Number of protected contact energized outputs O Type of interface for safety communication - **Communication** No **Communication** No **Communication** No **Communication** O Number of protected contact energized outputs O Number of protected contact energized outputs O **Communication** O **Communication	
With communication interface Ethernet With communication interface Ethernet With communication interface INTERBUS No With communication interface PROFIBUS No With communication interface RS-232 With communication interface RS-422 No With communication interface RS-422 No With communication interface RS-485 No With communication interface SSD No With communication interface SSI No No No No No No No No No N	
With communication interface Ethernet With communication interface INTERBUS With communication interface PROFIBUS With communication interface RS-232 With communication interface RS-232 With communication interface RS-422 With communication interface RS-485 No With communication interface SSD With communication interface SSD With communication interface SSI No No Number of semiconductor outputs with signalling function Number of protected semiconductor outputs Number of protected contact energized outputs	
With communication interface PROFIBUS With communication interface RS-232 With communication interface RS-232 With communication interface RS-422 With communication interface RS-425 With communication interface RS-485 No With communication interface SSD With communication interface SSD No With communication interface SSI No With communication interface SSI No No With communication interface SSI No No Number of semiconductor outputs with signalling function 2 Number of contact energized outputs with signalling function Number of protected semiconductor outputs Number of protected contact energized outputs Type of interface for safety communication - - - - - - - - - - - - -	
With communication interface RS-232 With communication interface RS-232 With communication interface RS-422 No With communication interface RS-485 With communication interface SSD With communication interface SSD No With communication interface SSI No No No Number of semiconductor outputs with signalling function Number of contact energized outputs with signalling function Number of protected semiconductor outputs Number of protected contact energized outputs Number of protected contact energized outputs Type of interface for safety communication No 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 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 Number of protected contact energized outputs 0 Type of interface for safety communication -	
With communication interface RS-422 With communication interface RS-485 No With communication interface SSD No With communication interface SSI No No Number of semiconductor outputs with signalling function Number of contact energized outputs with signalling function Number of protected semiconductor outputs Number of protected contact energized outputs Type of interface for safety communication No No No No No No No O Number of semiconductor outputs with signalling function O Number of protected semiconductor outputs O Type of interface for safety communication	
With communication interface RS-485 With communication interface SSD No With communication interface SSI No Number of semiconductor outputs with signalling function Number of contact energized outputs with signalling function Number of protected semiconductor outputs O Number of protected contact energized outputs Type of interface for safety communication No No No No No No No O Number of semiconductor outputs with signalling function O Type of interface for safety communication	
With communication interface SSD With communication interface SSI No Number of semiconductor outputs with signalling function Number of contact energized outputs with signalling function Number of protected semiconductor outputs Number of protected contact energized outputs Type of interface for safety communication No No No No No No 2 Number of semiconductor outputs with signalling function 0 Number of protected semiconductor outputs 0 Type of interface for safety communication	
With communication interface SSI No Number of semiconductor outputs with signalling function Number of contact energized outputs with signalling function Number of protected semiconductor outputs Number of protected contact energized outputs Type of interface for safety communication No No O O Type of interface sSI No O O Type of interface semiconductor outputs outputs O Type of interface for safety communication No O Type of interface sSI No O O Type of interface semiconductor outputs outputs O Type of interface for safety communication	
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 2	
Number of contact energized outputs with signalling function Number of protected semiconductor outputs O Number of protected contact energized outputs Type of interface for safety communication O Type of interface for safety communication O Type of interface for safety communication	
Number of protected semiconductor outputs 0 Number of protected contact energized outputs 0 Type of interface for safety communication -	
Number of protected contact energized outputs 0 Type of interface for safety communication -	
Type of interface for safety communication -	
Type of electric connection -	
Type of switching output PNP/NPN	
Type of switch function -	
Operation agent-safety class 2	
Explosion safety category for gas None	
Explosion safety category for dust None	
Construction type housing Cuboid	
Width sensor mm 43	
Diameter sensor mm 0	
Height of sensor mm 59	
Length of sensor mm 166	
Switch function Light switching	
Material of optical surface Plastic	
Material housing Plastic	
Max. output current at protected output mA 0	
Min. reflector distance mm 0	
Ambient temperature °C -35 - 55	
Time of reaction ms 15	
Transmission range of the safety field m 0	
Switching frequency Hz 0	
Type of safety acc. IEC 61496-1	
Switching voltage of OSSD at state "high" V 30	
Rated control supply voltage Us at AC 50HZ V 0 - 0	
Rated control supply voltage Us at AC 60HZ V 0 - 0	
Rated control supply voltage Us at AC 60H2 V 18 - 30	
Voltage type DC	
With monitoring function downstream switching devices No	
INU	

Laser protection class		None
Wavelength of the sensor	nm	0
Type of light		Infrared light
Light dot	mm ²	0
AWG-number		0
Material of cable sheath		-
With restart blockage		No
Suitable for safety functions		No
Degree of protection (IP)		IP67

Approvals

Product Standards	CE marking
Max. Voltage Rating	30 V DC

Dimensions



Additional product information (links)

IL05305005Z E67 Series Optical Sensors with Perfect Prox Background Rejection

IL05305005Z E67 Series Optical Sensors with Perfect Prox Background Rejection ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL05305005Z2016_07.pdf