



Proximity switch, optical, long range 160cm, 18-30VDC, NPN, PNP, dark, micro



Part no. E67-LRDP160-HDD
Catalog No. 100559
Alternate Catalog No. E67-LRDP160-HDD

Delivery program

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	1600
Description			with background suppression (Perfect Prox)
Connection			4-wire
Function			Reflected-light beam
Type of light			Infra-red
Switching type			NPN PNP
Switching principle			Dark switching

Technical data

General

Ambient temperature			-35 - +55
Operation	θ	°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	1600
Rated operational voltage	U_e		18 – 30 V DC
Maximum load current	I_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 7.0

Sensors (EG000026) / Light scanner with background masking (EC002719)			
Electric engineering, automation, process control engineering / Binary sensor technology, safety-related sensor technology / Optoelectronic sensor / Light scanner w. background masking (ec1@ss10.0.1-27-27-09-04 [AKP253013])			
Adjustment range		mm	0 - 1600
Operating distance		mm	0 - 0

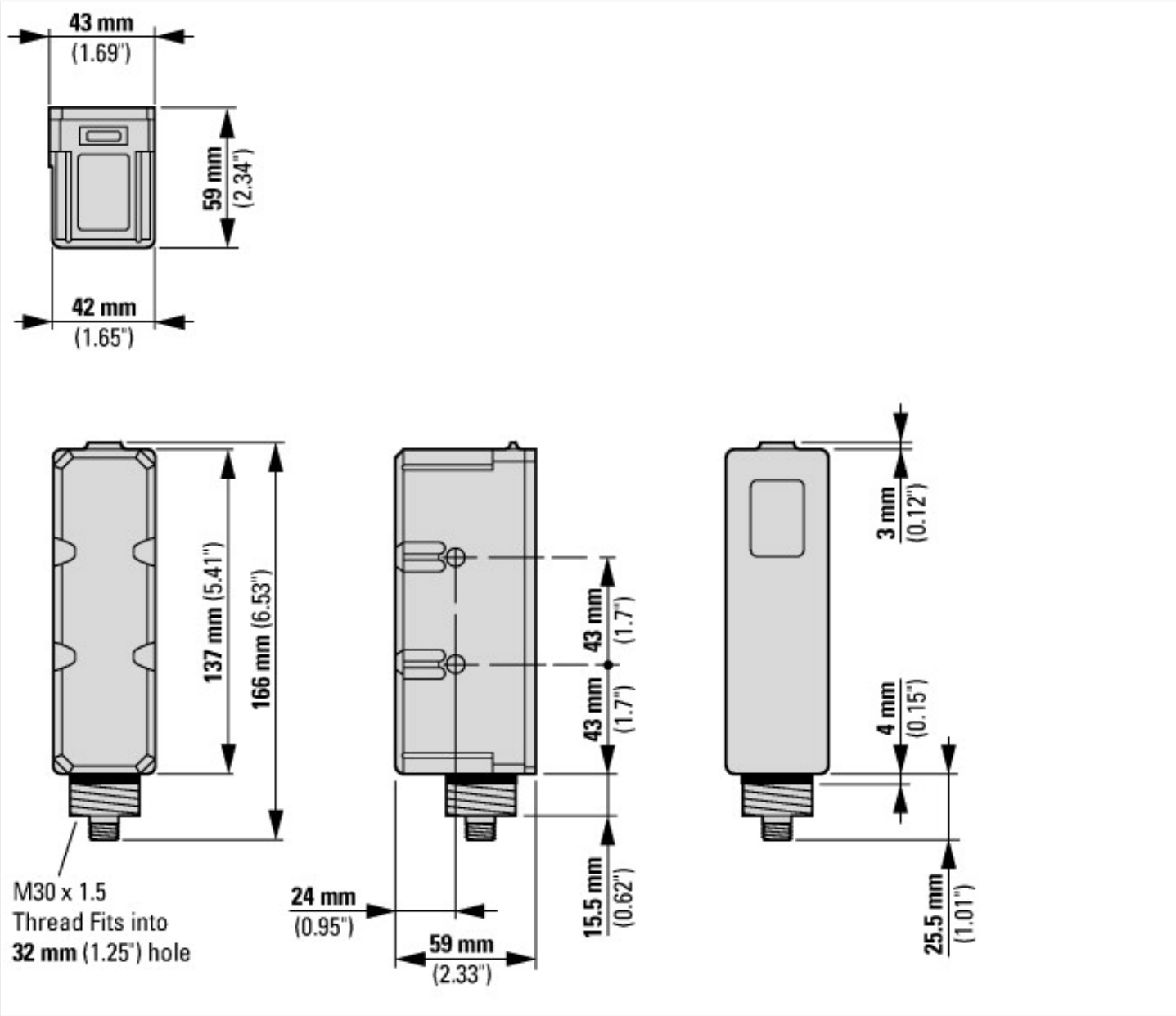
Triangulation			Background fade-out
Pre failure notice			No
With time function			No
Rated switching distance		mm	1600
Max. switching distance		mm	1900
Max. output current		mA	100
Reflector included			No
Analogue output 0 V ... 10 V			No
Analogue output 0 mA ... 20 mA			No
Analogue output 4 mA ... 20 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			Other
Type of switching output			PNP/NPN
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	43
Diameter sensor		mm	0
Height of sensor		mm	59
Length of sensor		mm	166
Sensing mode			Dark 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 DC		V	18 - 30

Voltage type		DC
With monitoring function downstream switching devices		No
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		Other
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



Assets (links)

Declaration of CE Conformity

00002429

Instruction Leaflets

IL05305005Z2018_05

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/IL05305005Z2018_05.pdf