DATASHEET - E58-30RS18-HDP



Retroflective sensing sensor, Sn=18m, 4L, 10-30VDC, dark, NPN, PNP, M30, metal, M12



Part no. E58-30RS18-HDP 135689

Catalog No.

Alternate Catalog

E58-30RS18-HDP

No.

EL-Nummer

0004315347

(Norway) **Delivery program**

Delivery program			
Basic function			Optical sensors
Product range			E58 Harsh Duty Series
For connection of:			Plug-in connection M12 x 1
Design (outer dimensions)		mm	M30 x 1.5
Rated operational voltage	U _e		10 - 30 V DC
Rated switching distance	S_n	mm	18000
Description			for combination with reflector
Connection			4-wire
Function			Reflex photoelectric sensor
Type of light			Visible red
Material			Stainless steel
Switching type			NPN PNP
Switching principle			Dark switching

Information relevant for export to North America

Product Standards UL 508; CSA-C22.2 No. 14; IEC60947-5-2; CE marking

UL File No. E166051

UL Category Control No. NRKH, NRKH7

CSA File No. UL report applies to both Canada and US

CSA Class No. -

North America Certification UL listed, certified by UL for use in Canada

Max. Voltage Rating 30 V DC

Degree of Protection IEC: IP68, IP69K; UL/CSA Type: 1, 2, 3, 3R, 3S, 4, 4x, 6, 6P, 12, 12K, 13

Technical data

General			
Standards			IEC/EN 60947-5-2
Ambient temperature			-40 - +55
Mechanical shock resistance		g	100 Shock duration 3 ms
Degree of Protection			IP69
Characteristics			
Rated switching distance			
Rated switching distance	S_n	mm	18000
Range		mm	18
Rated operational voltage	U _e		10 - 30 V DC

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Rated switching distance	S_n	mm	18000
Range		mm	18
Rated operational voltage	U _e		10 - 30 V DC
Maximum load current	I _e	mA	< 100
Response time		ms	1.6
Switching state display		LED	Red
Protective functions			Short-circuit protective device Protection against polarity reversal Protection against wire breakage
Connection			4-wire
Style			
Design (outer dimensions)		mm	M30 x 1.5
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	-40
Operating ambient temperature max.	°C	55

Technical data ETIM 7.0

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Sensors (EG000026) / Reflection light barrier (EC002717)				
Electric engineering, automation, process control engineering / Binary sensor technology, safety-related sensor technology / Optoelectronic sensor / Reflection light barrier (ecl@ss10.0.1-27-27-09-02 [AKP251013])				
Pre failure notice		No		
With time function		No		
Rated switching distance	mm	18000		
Max. switching distance	mm	0		
Max. output current	mA	100		
Reflector included		No		
Analogue output 0 V 10 V		No 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 No		
With communication interface INTERBUS		No		
With communication interface PROFIBUS		No No		
With communication interface RS-232		No		
With communication interface RS-422		No		
With communication interface RS-485		No 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				
Type of electric connection		Connector M12		
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	0		
Diameter sensor	mm	30		
Height of sensor	mm	0		
Length of sensor	mm	111		
Sensing mode		Dark switching		
Material of optical surface		Glass		
Material housing		Metal		
Max. output current at protected output	mA	0		
Min. reflector distance	mm	0		

Ambient temperature	°C	40 - 55
Time of reaction	ms	0
Transmission range of the safety field	m	0
Switching frequency	Hz	312
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	10 - 30
Voltage type		DC
With monitoring function downstream switching devices		No
Laser protection class		None
Wavelength of the sensor	nm	0
Type of light		Other
Light dot	mm²	0
With restart blockage		No
Suitable for safety functions		No
Degree of protection (IP)		IP67
Degree of protection (NEMA)		4X

Approvals

Product Standards	UL 508; CSA-C22.2 No. 14; IEC60947-5-2; CE marking
UL File No.	E166051
UL Category Control No.	NRKH, NRKH7
CSA File No.	UL report applies to both Canada and US
CSA Class No.	-
North America Certification	UL listed, certified by UL for use in Canada
Max. Voltage Rating	30 V DC
Degree of Protection	IEC: IP68, IP69K; UL/CSA Type: 1, 2, 3, 3R, 3S, 4, 4x, 6, 6P, 12, 12K, 13

Dimensions

