#### **DATASHEET - E58-18DP100-HLP**



Diffuse reflective sensor, Sn=100mm, 4L, 10-30VDC, light, NPN, PNP, M18, metal, M12



Part no. E58-18DP100-HLP Catalog No. 135667

**Alternate Catalog** 

E58-18DP100-HLP

No.

EL-Nummer 0004315342

(Norway)

#### **Delivery program**

Don'tory program			
Basic function			Optical sensors
Product range			E58 Harsh Duty Series
For connection of:			Plug-in connection M12 x 1
Design (outer dimensions)		mm	M18 x 1
Rated operational voltage	U <sub>e</sub>		10 - 30 V DC
Rated switching distance	$S_n$	mm	100
Description			with background suppression (Perfect Prox)
Connection			4-wire
Function			Reflected-light beam
Type of light			Visible red
Material			Stainless steel
Switching type			NPN PNP
Switching principle			Light 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

 $\ensuremath{\mathsf{CSA}}$  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	100
Range		mm	0.1
Rated operational voltage	U <sub>e</sub>		10 - 30 V DC
Maximum load current	l <sub>e</sub>	mA	< PNP: 100 NPN: 250
Response time		ms	1
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	M18 x 1

For connection of:	Plug-in connection M12 x 1
Material	Stainless steel

# 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**

Sensors (FG000026)	/ Light aconner with	a bookaround :	mooking (EC002710)

Reflector included  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
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		Connector M12
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		Cylinder, screw-thread
Width sensor	mm	0
Diameter sensor	mm	18
Height of sensor	mm	0
Length of sensor	mm	80
Sensing mode		Light 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	1
Transmission range of the safety field	m	0
Switching frequency	Hz	500
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	660
Type of light		Other
Light dot	mm²	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	UL 508; CSA-C22.2 No. 14; IEC60947-5-2; CE marking
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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

