# PD30ETPS50BPxxIO - IO-Link



# Photoelectric Retro-reflective Polarized - PointSpot sensors with IO-Link communication



### Description

The PD30ETPS50BPxxIO stainless steel sensors are built with high-quality materials and designed for harsh environments.

They are designed for use in environments where high-pressure cleaning, cleaning agents and disinfectants are used on a daily basis.

The strong stainless steel (AISI316L) together with high-quality plastic materials like PEEK, PPSU, and PES sealings of FKM ensure a safe and excellent mechanical resistance.

The sensor housing has the IP69K rating as well as approval by ECOLAB for cleaning and disinfection agents.

The compact sensor design is ideally suited to confined spaces.

### Benefits

- Retro-reflective Polarized PointSpot sensor with IO-Link with a adjustable distance of 2.5 to 5 m, either by trimmer or via IO-Link.
- Application functions: Pattern Recognition, Speed & Length, Divider function and Object & Gap Monitoring.
- Neighbour Immunity, selectable up to 3 sensors
- Easy customization to specific OEM requests by use of the build in IO-Link functionalities.
- The output can be operated either as a standard switching output or in IO-Link mode.
- Fully configurable via output IO-Link v 1.1. Electrical outputs can be configured as PNP / NPN / Push-Pull / External input, normally open or normally closed.
- Timer functions can be set, such as ON-delay, Offdelay, and one shots.
- Logging functions: Temperatures, detecting counter, power cycles and operating hours.
- Detection modes Single point, two point and windows mode.
- · Logic functions: AND, OR, XOR and Gated SR-FF.
- Analogue output: In IO-Link mode the sensor will generate 16 bit analogue process data output representing various selectable process data such as received signal level.



### **Applications**

**Pattern Recognition**: An easy way to verify that a product is manufactured to the specification e.g. Furniture production where tabs or holes has to be with a defined pattern.

Speed and Length: Monitor the speed and length of an object on a conveyour for e.g. sorting on size.

**Divider function**: A de-central counting function that gives a signal when a preset count level is reached e.g. when a certain items are packed in a carton box it ask for a new box.

**Object and Gap Monitoring**: Function that can sort out good objects and gaps between them so e.g. a packaging machine only reveive objects with the correct size and gaps.



### **Main functions**

- · Detects presence or absence of objects that cut off the light from the emitter
- · Detects all opaque objects very reliably
- · The PointSpot light source removes halo light and increases detection reliability.
- The sensor can be operated in IO-Link mode once connected to an IO-Link master or in standard I/O mode.
- · Received light intensity as process data.
- · Neighbor inference protection.
- · Sensing distance by potentiometer, teach by wire or by IO-link parameter.
- · Quality of Run and Quality of Teach result.
- Temperature date for preventive maintenance.
- Front-end check for preventive maintenance.

### Adjustable parameters via IO-Link interface:

- · Sensing distance and hysteresis.
- · Sensing modes: single point or two point or window mode.
- Timer functions, e.g.: On-delay, Off delay, One shot leading edge or trailing edge.
- · Logic functions such as: AND, OR, X-OR and SR-FF.
- · External input.
- Logging functions: Maximum temperatures, minimum temperatures, operating hours, operating cycles, power cycles, minutes above maximum temperature, minutes below minimum temperature, etc.
- Auto hysteresis
- · Special functions: Pattern Recognition, Speed & Length, Divider function and Object & Gap Monitoring.

# References

# Product selection key

Enter the code option instead of  $\Box$ 

PD30ETPS50BP

Code	Option	Description
Р		Sensing principle: Photoelectric sensor
D		Rectangular housing
30		Length of housing
E		Stainless steel
Т		Top trimmer
Р		Polarized retro-reflective
S		PointSpot
50		Sensing distance: 5 m
В		<b>Selectable functions:</b> NPN, PNP, Push-Pull, External Input (only pin 2) or External teach input (only pin 2)
Р		Selectable: N.O. or N.C.
	A2	Cable, 2 m
	M5	Connector M8
10		IO-Link version

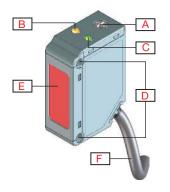


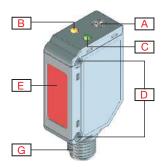
# Type selection

Connec- tion	Housing	Light type	Code
Cable	Stainless steel	Red	PD30ETPS50BPA2IO
Plug	Stainless steel	Red	PD30ETPS50BPM5IO



# **Structure**





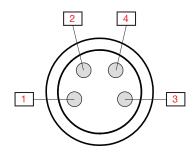


Fig. 1 Cable

Fig. 2 Plug

Fig. 3 "M8-plug" Pin numbers

Α	Sensitivity adjustment (Top trimmer)	G	M8, 4-pin male connector
В	Yellow LED	1	Brown
С	Green LED	2	White
D	M3 Fixing holes for sensor mounting	3	Blue
E	Sensing window	4	Black
F	2 m, 4 wire PVC Ø 3.3 mm cable		



# Sensing

### **Detection** Auto 1. **SSC1** adjust S.P.1 (trimmer/IO-Link) S.P.2 Hysteresis (man./auto) Logic A - B Time delay Selector Output Sensor inverter output A SSC1 SO1 AND, OR, XOR, S-R В ON, OFF One-shot NPN, PNP, Push-Pull Logic Single point Two point Windows One of 1 to 7 2. **SSC2**S.P.1 S.P.2 Hysteresis Logic Single point Two point Windows Selector Logic A - B Time delay Sensor Output В inverter output SSC2 SO2 AND, OR, XOR, S-R ON, OFF One-shot One of 1 to 7 NPN, PNP, Push-Pull EXT-Input Α EXT-Input 3. Temperature 4. Dust 1 7. Aplication functions 5. **Dust 2** or Object & Gap Pattern Speed & **Diveder** Recognition or or 6. EXT-Input Monitoring Length function



	SSC1	SSC2
Sensor switching channel SSC1 and	• Enabled	Enabled
SSC2	Disabled	Disabled
	Factory settings: Enabled	Factory settings: Enabled
	• 0 600	
Set Point 1 (SP1)	Factory settings: 100 (Approx. 5 m @ (Ø80 mm)	Reference target, reflector: ER4
Set Beint 2 (SB2)	• 0 600 Factory settings: 600 (Approx. 2.5 m	@ Peteronee target reflector: EB4
Set Point 2 (SP2)	(Ø80 mm)	W Reference target, reflector. ER4
	High active	
Switching logic	• Low active	
	Factory settings: High active	
	SSC1	SSC2
	Deactivated	Deactivated
Switching mode	Single point mode	Single point mode
- Children and an analysis of the children and an analysis of	Two point mode	Two point mode
	Windows mode	Windows mode
	Factory settings: Single point mode	Factory settings: Single point mode
Rated operating distance (S <sub>n</sub> )	≤ 5 m	@ Reference target, reflector: ER4 (Ø80 mm)
reated operating distance (o <sub>n</sub> )	≤ 3 m	@ Reference target, reflector: ER4060
Maximum detection distance	< 5 m	@ Reference target, reflector: ER4 (Ø80 mm)
• IO-Link Adjustment (SSC1) • Trimmer Input (SSC1) • Teach by wire (SSC1) • Teach by wire (SSC1) • Teactory settings: Trimmer Input		
Sensitivity adjustment	70 500	Single-turn potentiometer
Blind zone	≤ 100 mm @ Sn max	@ reflector ER4, Ø80 or ER4060
Light source / Light type	620 nm / Red modulated	W Tellector ETV4, \$500 or ETV4000
	± 0.6°	@ 2 E m (half agnaing distance)
Detection angle		@ 2.5 m (half sensing distance)
Light spot size	Ø 9.5 cm	@ 2.5 m (half sensing distance)
Emitter beam angle	± 1.0°	@ 2.5 m (half sensing distance)
Adjustable distance	• 0 600 Factory settings: SP1 100 (5 m) and SP2 600 (2.5 m)	@ Reference target, reflector: ER4 (Ø80 mm)
Hysteresis (H)		
	Adjustable by IO-Link	
Manual	Adjustable by IO-Link • 1% 100%	
, ,	• 1% 100%	
Manual	• 1% 100% Typical 5% 10% / Max. 15%	tv towards unstable targets and
Manual Automatic	• 1% 100% Typical 5% 10% / Max. 15% This function can increase the immuni electromagnetic disturbances: Value of	
Manual	• 1% 100% Typical 5% 10% / Max. 15% This function can increase the immuni electromagnetic disturbances: Value of Factory settings: 1	an be set from 1 to 255.
Manual Automatic	• 1% 100% Typical 5% 10% / Max. 15% This function can increase the immuni electromagnetic disturbances: Value of Factory settings: 1 (1 is max. operating frequency and 25)	an be set from 1 to 255.
Manual Automatic	1% 100% Typical 5% 10% / Max. 15% This function can increase the immuni electromagnetic disturbances: Value of Factory settings: 1 (1 is max. operating frequency and 25)     MIP Off	an be set from 1 to 255.
Manual Automatic	1% 100% Typical 5% 10% / Max. 15% This function can increase the immuni electromagnetic disturbances: Value of Factory settings: 1 (1 is max. operating frequency and 25)     MIP Off     One channel	an be set from 1 to 255.
Manual Automatic  Detection filter	1% 100% Typical 5% 10% / Max. 15% This function can increase the immuni electromagnetic disturbances: Value of Factory settings: 1 (1 is max. operating frequency and 25      MIP Off     One channel     2 channels - CH A	an be set from 1 to 255.  5 is min. operating frequency)
Manual Automatic	1% 100% Typical 5% 10% / Max. 15% This function can increase the immuni electromagnetic disturbances: Value of Factory settings: 1 (1 is max. operating frequency and 25      MIP Off     One channel     2 channels - CH A     2 channels - CH B	an be set from 1 to 255.
Manual Automatic  Detection filter	1% 100% Typical 5% 10% / Max. 15%  This function can increase the immunical electromagnetic disturbances: Value of Factory settings: 1 (1 is max. operating frequency and 25)      MIP Off     One channel     2 channels - CH A     2 channels - CH B     3 channels - CH A	an be set from 1 to 255.  5 is min. operating frequency)
Manual Automatic  Detection filter	1% 100% Typical 5% 10% / Max. 15% This function can increase the immuni electromagnetic disturbances: Value of Factory settings: 1 (1 is max. operating frequency and 25      MIP Off     One channel     2 channels - CH A     2 channels - CH B	an be set from 1 to 255.  5 is min. operating frequency)



# Application functions

Selectable dedicated applications	<ul> <li>No application</li> <li>Pattern Recognition</li> <li>Speed and Length</li> <li>Divider function</li> <li>Object and Gap Monitoring</li> </ul>	Factory settings: No application
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# **Pattern Recognition**

Function description	The Pattern recognition function detects a pattern (e.g. a row of holes or pins) and compare the order with a pre-teached reference pattern.	
Conditions	Two sensors (Main sensor and Trigger sensor) are needed for this function.	
Settings	<ul> <li>The Trigger sensor has to detect the full length of the body that contains the pattern.</li> <li>The Main sensor has to be aimed at the e.g. holes or pins that constitute the pattern.</li> </ul>	

# **Speed and Length**

Function description	This function is designed to monitor the length of an object as well as the speed of a conveyour belt. The actual value if the length in [mm] and the speed in [mm/s] are directly available on the IO-Link master.	
Conditions Two sensors (Main sensor and Trigger sensor) are needed		sensor) are needed for this function.
Settings	Distance between sensors.	25 150 mm Factory settings: 100 mm

### **Divider function**

Function description	This function can be used to e.g. monitor how many items that are packed into a carton box. Once the preset number is reached the sensor gives an output so the full box can be replaced.		
Conditions	Only one sensor is needed for this function.		
	A counter value must be set in the sensor.		
Settings	Counter limit.	160 000 Factory settings: 5	



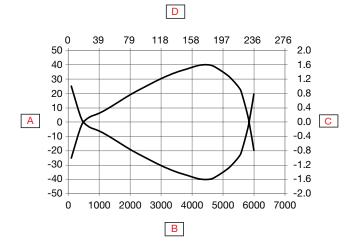
# **Object and Gap Monitoring**

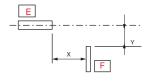
Function description		This function is designed to monitor, that the length of an object and the gap between the following object on a conveyer belt, are witin certain limits.		
Conditions	Only one sensor is needed for	Only one sensor is needed for this function.		
	An acceptable minimum and maximum time [ms] mus be set for both the object size a gap size between two objects represented by the time it takes to pass the sensor.			
	Object minimum time.	1060 000 ms Factory settings: 500 ms		
Settings	Object maximum time.	1060 000 ms Factory settings: 10 000 ms		
	Gap minimum time.	1060 000 ms Factory settings: 500 ms		
	Gap maximum time.	1060 000 ms Factory settings: 10 000 ms		
Outputs		Output 1 is active when an object is outside the set limits.  Output 2 is active when the gap between two objects is outside the set limits.		

# Alarm settings

	SSC1	SSC2
Safe limits	• 0 100 % of actual SP	• 0 100 % of actual SP
	Factory settings: 20%	Factory settings: 20%
Dust alarm	Safe limits are used for dust alarm lev	rel.
Water drop alarm	Safe limits are used for water drop alarm level.	
	• High threshold -50 +150 °C	
	• Low threshold -50 +150 °C	
Temperature alarm	Factory settings:	
	High value 70 °C	
	Low value -20 °C	

### **Detection diagram**





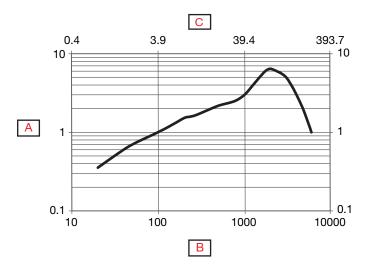
Α	Detection width (mm)	D	Sensing range (inches)
В	Sensing range (mm)	E	Sensor
С	Detection width (inches)	F	ER4 reflector



# Accuracy

Temperature drift	≤ 0.2%/°C
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# Excess gain



Α	Excess gain	С	Distance (inches)
В	Distance mm		



# **Features**



# Power Supply

Rated operational voltage (U <sub>B</sub> )	10 30 VDC (ripple included)
Ripple (U <sub>rop</sub> )	≤ 10%
No load cumply current (L)	≤ 30 mA @ U <sub>B</sub> min.
No load supply current (I <sub>o</sub> )	≤ 15 mA @ U <sub>B</sub> max.
Power-ON delay (t <sub>v</sub> )	≤ 150 ms



# Auto adjust

	SSC1	SSC2
Auto adjust	• ON	• ON
Auto adjust	• OFF	• OFF
	Factory settings: OFF	Factory settings: OFF

### Input selector

	Channel A	Channel B
	Deactivated	Deactivated
	• SSC1	• SSC1
	• SSC2	• SSC2
lumit calcates	Dust alarm 1	Dust alarm 1
Input selector	Dust alarm 2	Dust alarm 2
	Temperature alarm	Temperature alarm
	External input	External input
	Application functions	Application functions
	Factory settings: SSC1	Factory settings: SSC1



# Logic functions

	Channel A + B for SO1	Channel A + B for SO2
	Direct	Direct
	• AND	• AND
Logic functions	• OR	• OR
	• X-OR	• X-OR
	• SR-FF	• SR-FF
	Factory settings: Direct	Factory settings: Direct



# Time delays

	For SO1	For SO2
	Disabled	Disabled
	ON delay	ON delay
Timer mode	OFF delay	OFF delay
Timer mode	ON delay and OFF delay	ON delay and OFF delay
	One-shot leading edge	One-shot leading edge
	One-shot trailing edge	One-shot trailing edge
	Factory settings: Disabled	Factory settings: Disabled
	For SO1	For SO2
	• [ms]	• [ms]
Timer scale	• [s]	• [s]
	• [min]	• [min]
	Factory settings: ms	Factory settings: ms
	For SO1	For SO2
Timer value	• 0 32 767	• 0 32 767
	Factory settings: 0	Factory settings: 0

# Outputs

	For SO1 Pin 4 Black wire	For SO2 Pin 2 White wire		
	Disabled output	Disabled output		
	• NPN	• NPN		
	• PNP	• PNP		
Sensor output	Push-Pull	Push-Pull		
Sensor output		External input, active high		
		External input, active low		
		External teach		
		Mute input		
	Factory settings: PNP	Factory settings: PNP		
	For SO1 Pin 4 Black wire	For SO2 Pin 2 White wire		
Output Inverter	• N.O.	• N.O.		
Output inverter	• N.C.	• N.C.		
	Factory settings: N.O.	Factory settings: N.C.		
Rated operational current (I <sub>s</sub> )	≤ 100mA (continuous) pr. output	, , , , ,		
Rated Operational Current (I <sub>e</sub> )	100 mA @ 100 nF Load (Short-time) pr. output			
OFF-state current (I <sub>r</sub> )	≤ 50 µA			
Minimum operational current (I <sub>m</sub> )	> 0,5 mA			
Voltage drop (U <sub>d</sub> )	≤ 1.0 VDC @ 100 mA			
Protection	Short circuit, reverse polarity, transients			
	DC-12	Control of resistive loads and solid-		
Utilization category	DC-12	state loads with optical isolation		
	DC-13	Control of electromagnets		
Capacitive load	100 nF @ 100 mA, 24 VDC			

Operation diagram

# For default factory sensor

Tv = Power-ON delay



Power supply	ON	
Target (Object)	Present	
Break output (N.C.)	ON	_Tv
Make output (N.O.)	ON	

# Response times

Operating frequency (f)	≤ 1000 Hz	
Boonance times	≤ 500 µs	OFF-ON (t <sub>on</sub> )
Response times	≤ 500 µs	ON-OFF (t <sub>OFF</sub> )



# Indication

Green LED	Yellow LED	Power	Function		
SIO and IO-Link mode					
ON	ON	ON	ON (stable)* SSC1		
ON	OFF	ON	OFF (stable)* SSC1		
OFF	OFF	OFF	OFF (Not stable) SSC1		
Flashing 1 Hz (10% or 90% du- tycycle )	-	ON	Connected via IO-Link		
-	Flashing 10 Hz 50% dutycycle	ON	Output short-circuit		
-	Flashing 0.520 Hz 50% dutycycle	ON	Timer triggered indication		
		SIO mode only			
-	Flashing 1 HZ ON 100 ms OFF 900 ms	ON	External teach by wire. Only for single point mode.		
-	Flashing 1 HZ ON 900 ms OFF 100 ms	ON	Teach time window (3 - 6 sec).		
-	Flashing 10 HZ ON 50 ms OFF 50 ms Flashing for 2 sec	ON	Teach time out (12 sec).		
-	Flashing 2 HZ ON 250 ms OFF 250 ms Flashing for 2 sec	ON	Teach successful.		
O-Link mode only					
Flashing 1 HZ ON 900 ms OFF 100 ms	-	ON	Sensor is in IO-Link mode.		
Flashing 2 Hz 50% dutycycle		ON	Find my sensor		

<sup>\*</sup>See operation diagram



### LED indication

LED indication selection	LED indication inactive  LED indication active  Find my sensor  Factory settings: LED indication active
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### Environmental

A b.: 4 4 4	-25° +60°C (-13° +140°F)	Operating 1)
Ambient temperature	-40° +85°C (-40° +185°F)	Storage 1)
Ambient humidity range	35% 95%	Operating <sup>2)</sup>
Ambient numbers range	35% 95%	Storage 2)
Ambient light	≤ 45 000 lux	@ 3000 3200 °K
Vibration	10150 Hz, 1.0 mm/15 g	EN 60068-2-6
Shock	30 g <sub>n</sub> / 11 ms, 3 pos, 3 neg per axis	EN60068-2-27
Drop test	2 x 1 m and 100 x 0.5 m	EN 60068-2-31
Rated insulation voltage (U <sub>i</sub> )	50 VDC	
Dielectric insulation voltage	≥ 500 VAC rms	50/60 Hz for 1 min.
Rated impulse withstand voltage	>1 kV (with 500 Ω)	1.2/50 µs
Pollution degree	3	IEC60664, 60664A; EN60947-1
Overvoltage category	III	IEC60664; EN60947-1
Dograp of protection	IP67, IP68 @ 2 m and 20 h	IEC60539; EN60947-1
Degree of protection	IP69K	(DIN 40050-9)
NEMA Enclosure Types	1, 2, 4, 4X, 5, 6, 6P, 12	NEMA 250

<sup>&</sup>lt;sup>1)</sup> Do not bend the cable in temperatures below -10°C

<sup>&</sup>lt;sup>2)</sup> With no icing or condensation



Electrostatic discharge immunity test	± 8 kV @ air discharge or ± 4 kV @ contact discharge	IEC 61000-4-2; EN60947-1	
Electromagnetic field immunity	10 V/m	IEC 61000-4-3; EN60947-1	
Fast transient immunity	±2 kV / 5 kHz	IEC 61000-4-4; EN60947-1	
Wire-conducted noise	10 Vrms	IEC 61000-4-3; EN60947-1	
Power frequency magnetic field immunity test	Continuous: >30 A/m, 28 µ tesla Short-time: >300 A/m, 280 µ tesla	IEC 61000-4-8; EN60947-1	



# Diagnostic parameters

Function	Unit	Range		
Sensor Diagnostics				
Frontend Failure	0	0 or 1		
Memory Failure	0	0 or 1		
Temperature Diagnostics				
Current temperature	[°C]	-50 +150		
Maximum temperature - All time high	[°C]	-50 +150		
Minimum temperature - All time low	[°C]	-50 +150		
Maximum temperature - Since last power-up	[°C]	-50 <b>+</b> 150		
Minimum temperature - Since last power-up	[°C]	-50 <b>+</b> 150		
Minutes above Maximum Temperature	[min]	0 2 147 483 647		
Minutes below Minimum Temperature	[min]	0 2 147 483 647		
Operating Diagnostic				
Operating Hours	[h]	0 2 147 483 647		
Number of Power Cycles	[cycles]	0 2 147 483 647		
Detection counter SSC1	[cycles]	0 2 147 483 647		
Maintenaince event counter	[cycles]	0 2 147 483 647		
Download counter	[counts]	065 536		
Quality of Teach	-	0 255%		
Quality of Run	-	0 255%		
Excess gain		0 255		
Error Count	[counts]	065 536		
Device Status	0 = Device is operating properly 1 = Maintenance required 2 = Out-of-specification 3 = Functional-Check 4 = Failure Factory settings: 0			

# Events Configuration

Events	Factory default setting
Maintenaince Event	Inactive
Temperature fault event	Inactive
Temperature over-run	Inactive
Temperature under-run	Inactive
Short circuit	Inactive



# Observation menu

Process Data	Factory default setting
	Analogue value Inactive
	Analogue value normal <i>Factory settings</i>
Analogue value	Analogue value as Object Length
	Analogue value as Object Speed
	Analogue value as Counter value
Excess gain	Inactive
SO1, Switching output 1	Active
SO2, Switching output 2	Active
SSC1, Sensor switching channel 1	Inactive
SSC2, Sensor switching channel 2	Inactive
DA1, Dust alarm SSC1	Inactive
DA2, Dust alarm SSC2	Inactive
TA, Temperature alarm	Inactive
SC, Short circuit	Inactive
WDA1, Water drop alarm SSC1	Inactive
WDA2, Water drop alarm SSC2	Inactive
AFO1, Application functions output 1	Inactive

### **Process data structure**

4 Bytes, Analogue value 16 ... 31 (16 bit)

Purto 0	31	30	29	28	27	26	25	24
Byte 0	MSB	-	-	-	-	-	-	-
D 4.4	23	22	21	20	19	18	17	16
Byte 1	-	-	-	-	-	-	-	LSB
D 4: 0	15	14	13	12	11	10	9	8
Byte 2	-	-	SC	TA	DA2	DA1	SSC2	SSC1
Byte 3	7	6	5	4	3	2	1	0
	AFO1	-	-	-	WDA2	WDA1	SO2	SO1

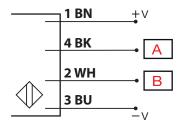


# Mechanics/electronics

# Connection

Cable	2 m, 4-wire 4 x 0.14 mm², Ø = 3.3 mm, PVC, Black
Plug	M8, 4-pin, male

### Wiring



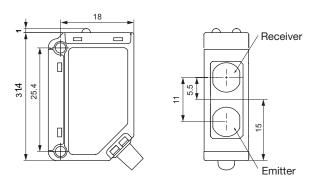
BN	BK	WH	BU	Α	В
Brown	Black	White	Blue	OUT/IO-Link	IN/OUT

# Housing

Body	Stainless steel, AISI316L			
Front glass	PPSU, Red	PPSU, Red		
Trimmer shaft	PEEK, Light grey			
Indication	PES, Transparent	Polyethersulfone		
Sealing	FKM	Fluoroelastomer		
Cable gland	FKM	Fluoroelastomer		
Dimensions	11 x 31.5 x 21 mm			
Weight	≤ 100 g	Cable version		
	≤ 65 g	Plug version		



### Dimensions



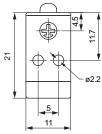


Fig. 4 Cable

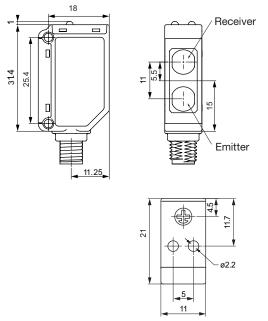


Fig. 5 Plug



# **Compatibility and conformity**

### Approvals and markings

General reference	Sensor designed according to EN60947-5-2		
MTTF <sub>d</sub>	138.5 years	EN ISO 13849-1, SN 29500	
CE-marking	CE		
Approvals	c UL us (UL 508)		
Other Approvals	EC&LAB°	Topax 56, Topaz AC1, Topaz MD3, Topaz CL1, Topactiv OKTO, P3-hypochloran	

### IO-Link

IO-Link revision	1.1
Transmission rate	COM2 (38.4 kbaud)
SDCI-Norm	IEC 61131-9
Profile	Smart sensor profile 2nd edition, common profile
Min. cycle time	5 ms
SIO mode	Yes
Min. master port class	A (4-pin)
Process data length	32 bit



# **Delivery contents and accessories**



### **Delivery contents**

- · Photoelectric switch: PD30ETPS50BPxxIO
- Screwdriver
- Packaging: Plastic bag



### **Accessories**

- Mounting bracket: APD30-MB1 or APD30-MB2 to be purchased separately
- Connector type: CO..54NF-..W series to be purchased separately



### **Further information**

Information	Where to find it	QR
IO-Link manual	http://cga.pub/?a099f9	
Mounting brackets	http://cga.pub/?6fa29a	
Connectors	http://cga.pub/?3abadc	



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