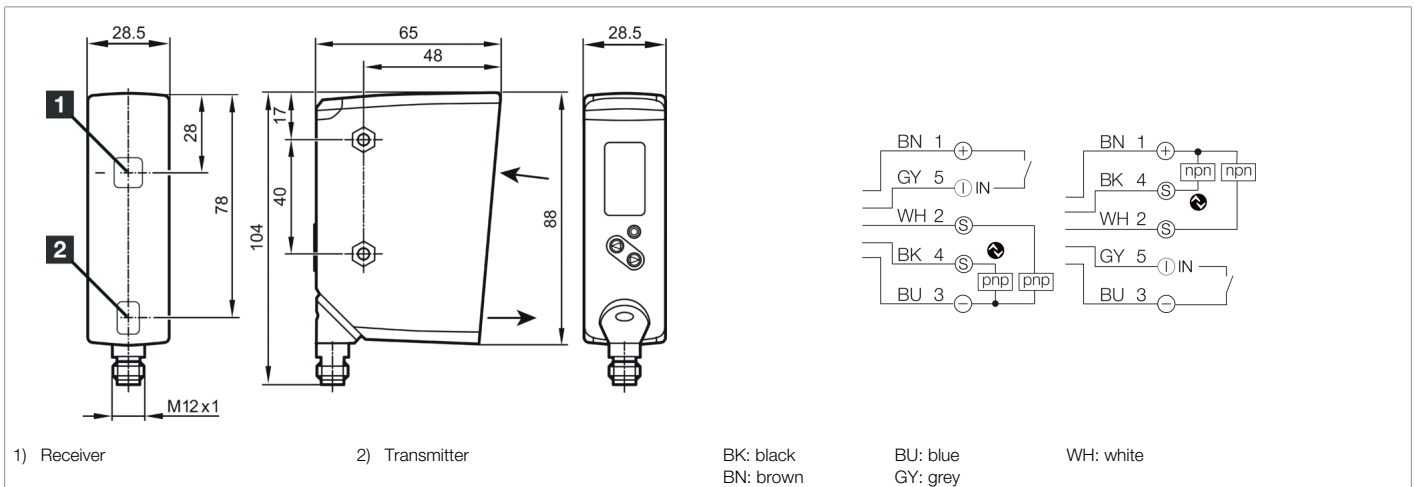







213740
PS30-05LL-500-500-IBS

- Creates height profiles for checking correct and complete assembly
- Quick commissioning without software
- Distance- and color-independent measurement for high tolerance in object positioning
- Ambient light immunity - no shielding or external illumination necessary
- IO-Link
- Visualize profiles and output measured values, e.g. movement of an object for simplified error analysis



Function											
											

Technical data (typ.)	+20°C, 24 V DC
Service voltage	10 ... 30 V DC
Power consumption	< 200 mA (10 V)
Inverse polarity protection	Yes
Short-circuit protection	Yes, clocked
Overload proof	Yes
Housing dimensions	88 x 65 x 28.5 mm
Housing material	Die-cast zinc (Black, PPSU; ABS; PMMA; PBT / PC; EPDM)
Material	PMMA (Window / optics)
Weight	535 g
Protection class	III, operation on protective low voltage
EMC directives	EN 60947-5-2
Model	PS 30
Profiles	Smart Sensor: Process Data Variable, Device Identification, Device Diagnosis
Storable profiles	10
Number of inputs/outputs	1 (digital) / 2 (digital)
Switching output	pnp/npn, 100 mA, NO/NC, configurable
Interface	IO-Link V1.1, COM3 (230,4 kBd)
SDCI norm	IEC 61131-9
IO-Link process data (cyclical)	<ul style="list-style-type: none"> ■ Bit length (function) ■ 16 (process value) ■ 4 (device status) ■ 1 (binary switching information)



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Technical data (typ.)	+20°C, 24 V DC
IO-Link functions (acyclical)	<ul style="list-style-type: none"> ■ Operating hours counter ■ Number of trigger operations ■ ROI setting
Supported DeviceIDs	<ul style="list-style-type: none"> ■ DeviceID (operating mode) ■ 1260 (default)
SIO mode	Yes
Required master port class	A
process cycle time	> 2.3 ms
Light source	Laser
Laser class	1 (IEC 60825-1:2014 / EN 60825-1:2014)
Color	Red
Wavelength	650 nm
Ambient light immunity	20 kLx
Wide measuring range (min)	45 mm (150 mm / minimum measuring distance / X axis)
Wide measuring range (max)	90 mm (300 mm / maximum measuring distance / X axis)
Measured value resolution	0.25 mm (X axis), 0.2 mm (Z axis)
Measuring distance	150 ... 300 mm (Z axis)
Reproducibility	± 0.5 mm X/Z axis, background white (90 % Remission)
Sensitivity adjustment	Programming buttons
Display	Color display, LED Green - Operation, yellow - Switching status
Measuring frequency	5.0 Hz
Readiness delay (max.)	2000 ms
Ambient temperature during operation	-10 ... +55 °C
Protection type	IP 65
Connection	Connector, M12, 5-pin
More information / accessories	https://www.di-soric.com/213740