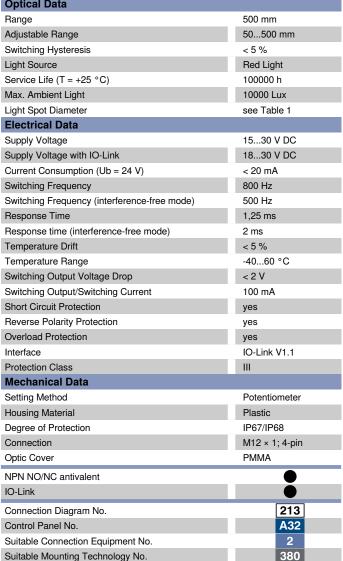
# P1PH303

Part Number









- **Condition monitoring**
- **IO-Link 1.1**
- Low switching distance deviation for black/white
- Reliably detect objects against any background

The reflex sensor with background suppression works with red light according to the angle measurement principle and is designed to detect objects against any background. The sensor always has the same switching distance, regardless of the color, shape and surface of the objects. The sensor detects minimal height differences and, for example, differentiates reliably various parts from each other. The IO-Link interface can be used to configure the reflex sensors (PNP/NPN, NC/NO, switching distance), as well as for reading out switching statuses and distance values.

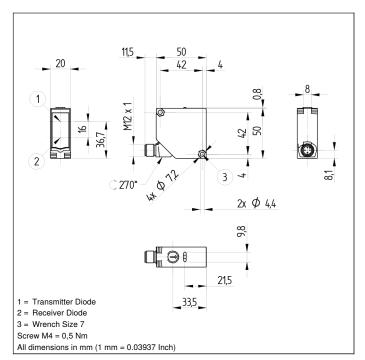


#### **Complementary Products**

Suitable Mounting Technology No.

IO-Link Master							
Set Protective Housing Z1PS001							
Software							

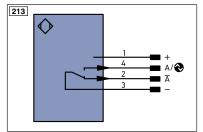




### Ctrl. Panel



- 05 = Switching Distance Adjuster
- 30 = Switching Status/Contamination Warning
- 68 = Supply Voltage Indicator



Legend			Platinum measuring resistor	ENARS422	Encoder A/Ā (TTL)
+	Supply Voltage +	nc	not connected	ENBRS422	Encoder B/B̄ (TTL)
-	Supply Voltage 0 V	U	Test Input	ENA	Encoder A
~	Supply Voltage (AC Voltage)	Ū	Test Input inverted	ENв	Encoder B
Α	Switching Output (NO	O) W	Trigger Input	Amin	Digital output MIN
Ā	Switching Output (NO	C) W-	Ground for the Trigger Input	Амах	Digital output MAX
٧	Contamination/Error Output (NO	0)	Analog Output	Аок	Digital output OK
V	Contamination/Error Output (NO	0-	Ground for the Analog Output	SY In	Synchronization In
Е	Input (analog or digital)	BZ	Block Discharge	SY OUT	Synchronization OUT
Т	Teach Input	Awv	Valve Output	OLT	Brightness output
Z	Time Delay (activation)	а	Valve Control Output +	М	Maintenance
S	Shielding	b	Valve Control Output 0 V	rsv	reserved
RxD	Interface Receive Path	SY	Synchronization	Wire Co	olors according to IEC 60757
TxD	Interface Send Path	SY-	Ground for the Synchronization	BK	Black
RDY	Ready	E+	Receiver-Line	BN	Brown
GND	Ground	S+	Emitter-Line	RD	Red
CL	Clock	÷	Grounding	OG	Orange
E/A	Output/Input programmable	SnR	Switching Distance Reduction	YE	Yellow
<b>②</b>	IO-Link	Rx+	/- Ethernet Receive Path	GN	Green
PoE	Power over Ethernet	Tx+	/- Ethernet Send Path	BU	Blue
IN	Safety Input	Bus	Interfaces-Bus A(+)/B(-)	VT	Violet
OSSD	Safety Output	La	Emitted Light disengageable	GY	Grey
Signal	Signal Output	Mag	Magnet activation	WH	White
BI_D+/-	- Ethernet Gigabit bidirect. data line		Input confirmation	PK	Pink
ENors42	Encoder 0-pulse 0-0 (TTL)	EDM	Contactor Monitoring	GNYE	Green/Yellow

### Table 1

Detection Range	60 mm	250 mm	500 mm
Light Spot Diameter	11 mm	13 mm	15 mm

## **Switching Distance Deviation**

Typical characteristic curve based on white, 90 % remission

