## **Reflex Sensor**





- Adjustable detection range
- Compact housing

## **Technical Data**

Optical Data			
Range	200 mm		
Switching Hysteresis	< 15 %		
Light Source	Infrared Light		
Service Life (T = +25 °C)	100000 h		
Risk Group (EN 62471)	1		
Max. Ambient Light	10000 Lux		
Opening Angle	12 °		
Electrical Data			
Supply Voltage	1030 V DC		
Current Consumption (Ub = 24 V)	< 40 mA		
Switching Frequency	800 Hz		
Response Time	650 µs		
Temperature Drift	< 10 %		
Temperature Range	-2560 °C		
Switching Output Voltage Drop	< 2,5 V		
NPN Switching Output/Switching Current	100 mA		
Residual Current Switching Output	< 50 µA		
Short Circuit Protection	yes		
Reverse Polarity Protection	yes		
Overload Protection	yes		
Protection Class	III		
Mechanical Data			
Setting Method	Potentiometer		
Housing Material	CuZn, nickel-plated		
Full Encapsulation	yes		
Degree of Protection	IP67		
Connection	Cable, 3-wire, 2 m		
NPN NO			
Connection Diagram No.	402		
Control Panel No.	02		
Suitable Mounting Technology No.	170		

The transmitter and receiver in these sensors are located in a single housing. The sensor evaluates transmitted light reflected back from the object. The output is switched as soon as an object passes the selected range. Bright objects reflect more light than dark objects, and can thus be recognized from greater distances.



## **Photoelectronic Sensors**







Legen	ld		PT	Platinum measuring resistor	ENA	Encoder A
+	Supply Voltage +		nc	not connected	ENв	Encoder B
-	Supply Voltage 0 V		U	Test Input	Амін	Digital output MIN
~	Supply Voltage (AC Voltage)		Ū	Test Input inverted	Амах	Digital output MAX
А	Switching Output	(NO)	W	Trigger Input	Аок	Digital output OK
Ā	Switching Output	(NC)	0	Analog Output	SY In	Synchronization In
V	Contamination/Error Output	(NO)	0-	Ground for the Analog Output	SY OUT	Synchronization OUT
V	Contamination/Error Output	(NC)	BZ	Block Discharge	OLT	Brightness output
E	Input (analog or digital)		Awv	Valve Output	м	Maintenance
Т	Teach Input		а	Valve Control Output +		
Z	Time Delay (activation)		b	Valve Control Output 0 V		
S	Shielding		SY	Synchronization	Wire Colors according to	
RxD	Interface Receive Path		E+	Receiver-Line	DIN IEC 757	
TxD	Interface Send Path		S+	Emitter-Line	BK	Black
RDY	Ready		÷	Grounding	BN	Brown
GND	Ground		SnR	Switching Distance Reduction	RD	Red
CL	Clock		Rx+/-	Ethernet Receive Path	OG	Orange
E/A	Output/Input programmable		Tx+/-	Ethernet Send Path	YE	Yellow
۲	IO-Link		Bus	Interfaces-Bus A(+)/B(-)	GN	Green
PoE	Power over Ethernet		La	Emitted Light disengageable	BU	Blue
IN	Safety Input		Mag	Magnet activation	VT	Violet
OSSD	Safety Output		RES	Input confirmation	GY	Grey
	Signal Output		EDM	Contactor Monitoring	WH	White
	Ethernet Gigabit bidirect. data	line (A-D)	ENARS422	Encoder A/Ā (TTL)	PK	Pink
EN0 RS42	Encoder 0-pulse 0-0 (TTL)		ENBR5422	Encoder B/B (TTL)	GNYE	Green/Yellow

