

# RT-P3223

ZoneControl

**MULTITASK PHOTOELECTRIC SENSORS** 





# Ordering information

Туре	Part no.
RT-P3223	1063130

Other models and accessories → www.sick.com/ZoneControl

Illustration may differ



#### Detailed technical data

#### **Features**

Sensor/ detection principle	Photoelectric proximity sensor, Background suppression
Dimensions (W x H x D)	20.6 mm x 99.2 mm x 48.9 mm
Sensing range max.	60 mm 900 mm
Sensing range	60 mm 900 mm
Type of light	Infrared light
Light source	LED <sup>1)</sup>
Light spot size (distance)	Ø 20 mm (500 mm)
Angle of dispersion	7°
Adjustment	Potentiometer, 9 turns
Special applications	ZoneControl

 $<sup>^{1)}</sup>$  Average service life: 100,000 h at  $T_U$  = +25 °C.

#### Mechanics/electronics

Supply voltage	10 V DC 30 V DC <sup>1)</sup>
Ripple	< 5 V <sub>pp</sub> <sup>2)</sup>
Current consumption	20 mA <sup>3)</sup>
Switching output	PNP
Switching mode	Light/dark switching

<sup>1)</sup> Limit values

 $<sup>^{2)}\,\</sup>mbox{May}$  not exceed or fall below  $\mbox{U}_{\mbox{\scriptsize V}}$  tolerances.

 $<sup>^{</sup>m 3)}$  Without load and valve deenergized.

 $<sup>^{4)}</sup>$  Do not bend below 0 °C.

 $<sup>^{5)}</sup>$  A = V<sub>S</sub> connections reverse-polarity protected.

<sup>6)</sup> C = interference suppression.

 $<sup>^{7)}</sup>$  D = outputs overcurrent and short-circuit protected.

Signal voltage PNP HIGH/LOW	Approx. $V_S - 0.5 \text{ V} / 0 \text{ V}$
Output current I <sub>max.</sub>	≤ 100 mA
Response time	2 ms
Switching frequency	250 Hz
Connection type	Cable with M12 male connector, 4-pin, 300 mm <sup>4)</sup>
Circuit protection	A <sup>5)</sup> C <sup>6)</sup> D <sup>7)</sup>
Protection class	III
Weight	175 g
Housing material	Plastic, ABS
Enclosure rating	IP67
Shock and vibration resistance	According to IEC 68
Ambient operating temperature	-40 °C +60 °C
Ambient storage temperature	-40 °C +75 °C
UL File No.	NRKH.E189383 & NRKH7.E189383

<sup>1)</sup> Limit values.

# Safety-related parameters

MTTF <sub>D</sub>	1,525 years
DC <sub>avg</sub>	0%

#### Classifications

ECI@ss 5.0	27270904
ECI@ss 5.1.4	27270904
ECI@ss 6.0	27270904
ECI@ss 6.2	27270904
ECI@ss 7.0	27270904
ECI@ss 8.0	27270904
ECI@ss 8.1	27270904
ECI@ss 9.0	27270904
ECI@ss 10.0	27270904
ECI@ss 11.0	27270904
ETIM 5.0	EC002719
ETIM 6.0	EC002719
ETIM 7.0	EC002719
UNSPSC 16.0901	39121528

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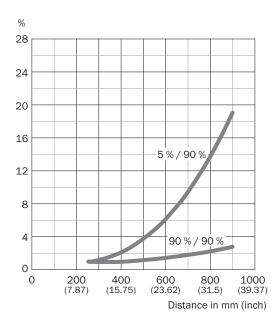
<sup>6)</sup> C = interference suppression.

<sup>7)</sup> D = outputs overcurrent and short-circuit protected.

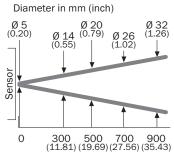
#### Connection diagram

Cd-255

#### Characteristic curve



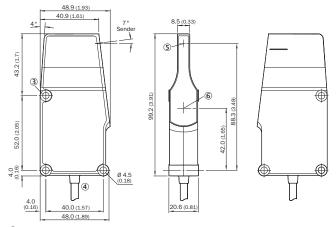
### Light spot size



#### Dimensional drawing (Dimensions in mm (inch))

#### R cable





- ① LED
- ② Potentiometer③ Fixing hole
- 4 Cable
- ⑤ Center of optical axis, sender
- © Center of optical axis, receiver

#### Recommended accessories

Other models and accessories → www.sick.com/ZoneControl

	Brief description	Туре	Part no.	
Mounting brackets and plates				
0 0	Mounting bracket, steel, zinc coated, mounting hardware included	BEF-WK-WTR	2051786	
		BEF-WN-IR	2074621	
Plug connectors and cables				
	Head A: female connector, M12, 4-pin, straight, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PVC, unshielded, 5 m	YF2A14- 050VB3XLEAX	2096235	
The state of the s	Head A: male connector, M12, 4-pin, straight Head B: - Cable: unshielded	STE-1204-G	6009932	

# SICK AT A GLANCE

SICK is one of the leading manufacturers of intelligent sensors and sensor solutions for industrial applications. A unique range of products and services creates the perfect basis for controlling processes securely and efficiently, protecting individuals from accidents and preventing damage to the environment.

We have extensive experience in a wide range of industries and understand their processes and requirements. With intelligent sensors, we can deliver exactly what our customers need. In application centers in Europe, Asia and North America, system solutions are tested and optimized in accordance with customer specifications. All this makes us a reliable supplier and development partner.

Comprehensive services complete our offering: SICK LifeTime Services provide support throughout the machine life cycle and ensure safety and productivity.

For us, that is "Sensor Intelligence."

# **WORLDWIDE PRESENCE:**

Contacts and other locations -www.sick.com

