

IRT-P212C93S24

ZoneControl

MULTITASK PHOTOELECTRIC SENSORS





Ordering information

Туре	Part no.
IRT-P212C93S24	1082537

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

Illustration may differ



Detailed technical data

Features

Actuator	Pneumatic, valve supplied separately
Max. number of sensors	Approx. 30 ¹⁾ Approx. 50 ²⁾
Logical principle of operation	Single accumulation
Type of Release	Single release, block (slug) release
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
Focus	7°
Type of light	Infrared light
Light source	LED ³⁾
Light spot size (distance)	Ø 20 mm (500 mm)
Angle of dispersion	7°
Adjustment	Potentiometer, 9 turns
Special applications	ZoneControl

 $^{^{1)}\,\}mbox{When powerd from the end of the IR daisy chain.}$

 $^{^{\}rm 2)}$ When powerd from center of the IR daisy chain.

 $^{^{3)}}$ Average service life: 100,000 h at T_{U} = +25 °C.

Mechanics/electronics

Supply voltage	10 V DC 30 V DC ¹⁾
Ripple	< 5 V _{pp} ²⁾
Current consumption	20 mA ³⁾
Switching output	PNP
Signal voltage PNP HIGH/LOW	Approx. V _S – 0.5 V / 0 V
Output current I _{max.}	≤ 100 mA
Response time	2 ms
Switching frequency	250 Hz
Connection type	Male connector M12, 4-pin
Connection type for daisy chain	Cable with receptacle, M12, 4-pin 1.2 m
Circuit protection	A ⁴⁾ C ⁵⁾ D ⁶⁾
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
Mode of operation solenoid valve	HIGH to Drive
Connection type solenoid valve	Cable with MOLEX-connector 43025-0200

¹⁾ Limit values.

Pneumatic

Connection type solenoid valve	Cable with MOLEX-connector 43025-0200
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

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

³⁾ Without load and valve deenergized.

 $^{^{4)}}$ A = V_S connections reverse-polarity protected.

 $^{^{5)}}$ C = interference suppression.

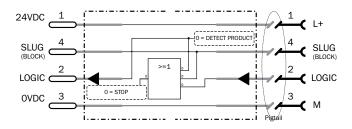
⁶⁾ D = outputs overcurrent and short-circuit protected.

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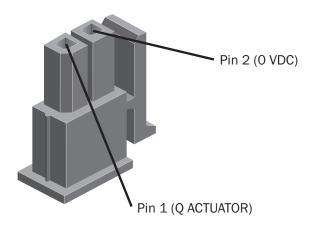
ECI@ss 11.0	27270904
ETIM 5.0	EC002719
ETIM 6.0	EC002719
ETIM 7.0	EC002719
UNSPSC 16.0901	39121528

Connection diagram

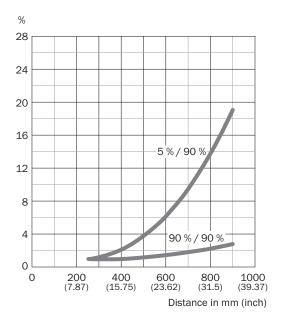
Cd-264



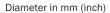
Molex 43025-0200

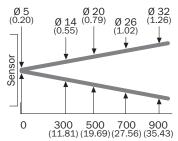


Characteristic curve



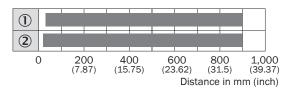
Light spot size





Distance in mm (inch)

Sensing range diagram

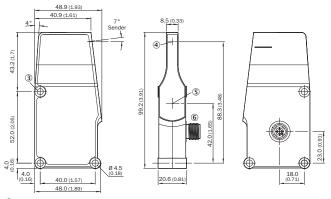


- Sensing range max.
- ① Sensing range on black, 5 % remission
- ② Sensing range on white, 90% remission

Dimensional drawing (Dimensions in mm (inch))

R / IR without valve





- ① LED
- ② Potentiometer
- 3 Fixing hole
- ④ Center of optical axis, sender
- ⑤ Center of optical axis, receiver
- Male connector M12, 4-pin

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-RT/IRT	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
	Head A: male connector, M12, 4-pin, straight Head B: - Cable: unshielded	STE-1204-G	6009932

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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:

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