

IRT-P210C93S25

ZoneControl

MULTITASK PHOTOELECTRIC SENSORS



MULTITASK PHOTOELECTRIC SENSORS



Ordering information

Туре	Part no.
IRT-P210C93S25	1083189

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⁾ 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	Daisy chain cable, 2.5 m
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.

Connection type solenoid valve

Pneumatic

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

Cable with MOLEX-connector 43025-0200

ECI@ss 8.0 ECI@ss 8.1

27270904

27270904

ECI@ss 9.0 ECI@ss 10.0 27270904 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.

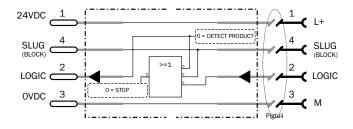
 $^{^{\}rm 6)}$ D = outputs overcurrent and short-circuit protected.

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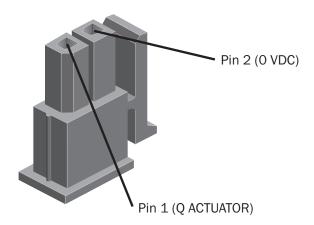
ECI@ss 11.0	27270904
ETIM 5.0	EC002719
ETIM 6.0	EC002719
ETIM 7.0	EC002719
UNSPSC 16.0901	39121528

Connection diagram

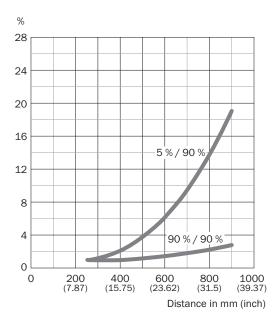
Cd-264



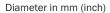
Molex 43025-0200

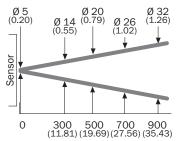


Characteristic curve



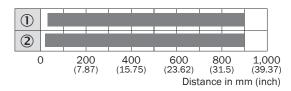
Light spot size





Distance in mm (inch)

Sensing range diagram

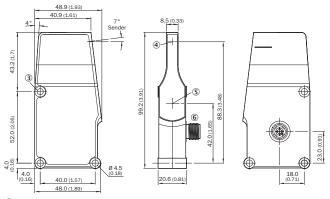


- Sensing range max.
- ① Sensing range on black, 5 % remission
- ② Sensing range on white, 90% remission

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		

SICK AT A GLANCE

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