Photoelectric sensors ZoneControl, Photoelectric proximity sensor, Background suppression

IRT-P211A10







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 Model Name
 > IRT-P211A10

 Part No.
 > 1063117

At a glance

- All-in-one ZoneControl solution: sensor, logic and actuator
- Single accumulation or single accumulation with sleep
- · Ideal for pneumatic actuators or motor-driven rollers
- Daisy chain connection cable included for zone lengths of 1 m and 2 m
- Output options with flying leads, M12 or integrated valve
- · Integrated with SICK's patented optical ASIC: SIRIC
- · IP 65 housing for harsh wash down environments

Your benefits

- 30% lower current draw reduces the size of the power supply and yearly electric costs
- Next-generation SIRIC optical ASIC provides ambient light immunity, which eliminates false trips and ensures high productivity
- · Variety of features and choices ensure application requirements are met
- Background suppression reduces mounting effort since no reflector is required
- Daisy chain connectivity ensures changes or additions to the system can be made quickly
- Sleep mode, which switches the rollers off after 9 s of inactivity, dramatically reduces power costs
- · Mounting between the rollers prevents damage and sensor interference
- The all-in-one solution with sensor, logic and valve reduces wiring and programming costs



Features

Sensor/detection principle: Dimensions (W x H x D): Sensing range: Type of light: Light source: Angle of dispersion: Adjustment: Light spot size (distance): Actuator: Max. number of sensors:: Logical principle of operation: Type of Release: Photoelectric proximity sensor, Background suppression 59.9 mm x 151.9 mm x 48.9 mm 60 mm ... 900 mm Infrared light LED ¹⁾ 7 ° Potentiometer, 9 turns Ø 20 mm (500 mm) Pneumatic, valve on board Ca. 30, Ca. 50 ^{2) 3)} Single accumulation Block (slug) release, Single release

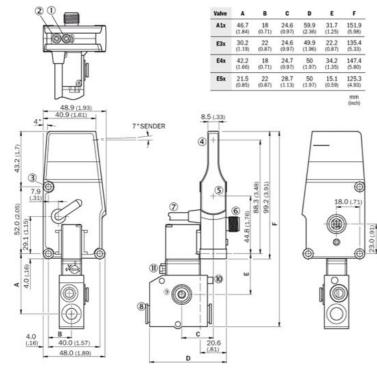


Illustration may differ

¹⁾ Average service life of 100,000 h at T _A = +25 °C ²⁾ V	When powerd from the end of the IR daisy chain 3) When powerd from center of the IR daisy chain
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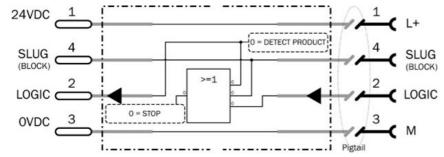
Supply voltage:	19.2 V DC 27.6 V DC ¹⁾	
Ripple:	< 5 Vpp ²	
Power consumption:	< 20 mA ³⁾	
Output type:	PNP	
Output current Imax.:	≤ 100 mA	
Response time:	2 ms	
Switching frequency:	± 250 Hz	
Connection type:	Connector M12, 4-pin ⁴⁾	
Circuit protection:::	A, C, D $^{(5)}$ $^{(6)}$ $^{(7)}$	
Protection class:	III	
Weight:	175 g	
Housing material:	ABS, Plastic	
Enclosure rating:	IP 65	
Ambient operating temperature:	-10 °C +55 °C	
Ambient storage temperature:	-40 °C +75 °C	
Shock/vibration:	According to IEC 68	
UL File No.:	NRKH.E189383 & NRKH7.E189383	
Signal voltage PNP HIGH/LOW:	Approx. VS - 0.5 V/0 V	
Connection type for daisy chain:	Cable with receptacle, M12, 4-pin 1.2 m	
Medium for valves:	Compressed air or neutral gases filtered, Non-lubricated or lubricated	
Design solenoid valve:	3/2-way valve	
Mode of operation solenoid valve:	Air to Drive (NC)	
Connection type solenoid valve:	Control line 1/4 " diameter, Compressed air 2x 3/8 " diameter	
Coil ratings:	24 V DC 1 W	
Air flow rate:	Ca. 1.4 SCFM	
Ventilation capacity:	Ca. 1.4 SCFM	
Operating pressure range:	0 psi 65 psi	
^b Limit values ²⁾ May not exceed or fall short of V stolerant for the stolerant ${}^{6)}$ C = interference suppression ${}^{7)}$ D = c	nces ${}^{3)}$ Without load and valve deenergized ${}^{4)}$ Do not bend below 0 °C ${}^{5)}$ A = V _S connections reverse butputs overcurrent and short-circuit protected	

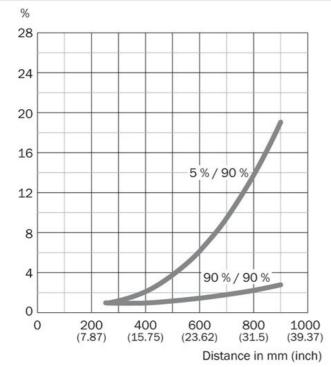
Dimensional drawing



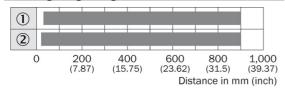
- 1 Potentiometer
- 2| LED
- 3| Mounting hole
- |4| Center of optical axis, sender
- [5] Center of optical axis, receiver
- [6] Connector M12, 4-pin
- [7] Daisy chain, cable with female connector

Connection diagram





Sensing range diagram



Sensing range max.

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