

IRT-P212C63







Photoelectric sensors ZoneControl, Photoelectric proximity sensor, Background suppression

Model Name > IRT-P212C63
Part No. > 1063116

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: Photoelectric proximity sensor, Background suppression

Dimensions (W x H x D): 20.6 mm x 99.2 mm x 48.9 mm

Sensing range: 60 mm ... 900 mm

Type of light: Infrared light

Light source: LED 1)

Angle of dispersion: 7 °

Adjustment: Potentiometer, 9 turns Light spot size (distance): Ø 20 mm (500 mm)

Actuator: Pneumatic, valve supplied separately

Max. number of sensors::

Ca. 30, Ca. 50 2) 3)

Logical principle of operation:

Single accumulation

Type of Release: Block (slug) release, Single release

Illustration may differ

1) Average service life of 100,000 h at $T_{\Lambda} = +25 \, ^{\circ}\text{C}$ When powerd from the end of the IR daisy chain 3) When powerd from center of the IR daisy chain

Mechanics/electronics

10 V DC ... 30 V DC ¹⁾ Supply voltage:

Ripple: < 20 mA ³⁾ Power consumption: PNP Output type: ≤ 100 mA Output current Imax.: Response time: 2 ms Switching frequency: ± 250 Hz

Connector M12, 4-pin ⁴⁾ A, C, D ^{5) 6) 7)} Connection type:

Circuit protection:::

Protection class: Ш 175 g Weight: **IP 67** Enclosure rating:

Ambient temperature operation: -40 °C ... +60 °C -40 °C ... +75 °C Ambient storage temperature: Shock and vibration resistance: According to IEC 68

NRKH.E189383 & NRKH7.E189383 UL File No.:

Signal voltage PNP HIGH/LOW: Approx. VS - 0.5 V/0 V

Connection type for daisy chain: Cable with receptacle, M12, 4-pin 2 m

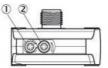
Mode of operation solenoid valve: HIGH to Drive

Connection type solenoid valve: Cable with 9.4 mm DIN valve connector

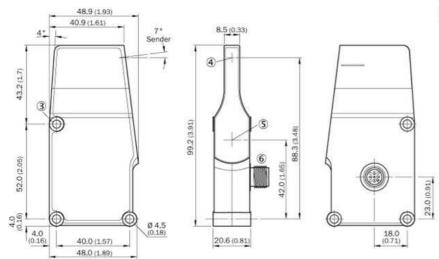
Housing material: ABS, Plastic

¹⁾ Limit values 2) May not exceed or fall short of V tolerances 3) Without load and valve deenergized 4) Do not bend below 0 °C 5) A = V connections reverse-polarity protected 6) C = interference suppression 7) D = outputs overcurrent and short-circuit protected

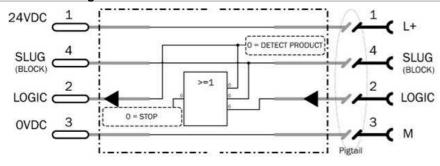
Dimensional drawing



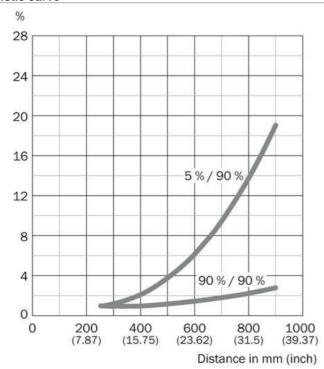
- |1| LED
- |2| Potentiometer
- |3| Mounting hole
- |4| Center of optical axis, sender
- |5| Center of optical axis, receiver
- |6| Connector M12, 4-pin



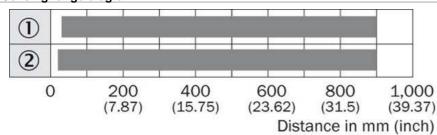
Connection diagram



Characteristic curve



Sensing range diagram

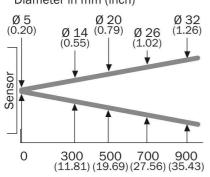


Sensing range max.

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

Light spot size

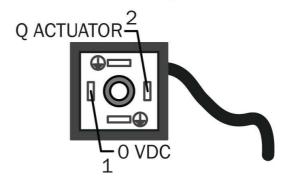
Diameter in mm (inch)



Distance in mm (inch)

Connection to conveyor

9.4 mm DIN cable, 300 mm



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