Photoelectrics

Type PC50CND10RP





- Adjustable sensitivity
- Modulated, infrared light
- Supply voltage:
 - 12 to 240 VDC and 24 to 240 VAC, 50/60 Hz
- Output: Relay 3 A, 30 VDC, 240 VAC
- Make and break switching function
- LED-indication for output ON, signal stability and supply ON
- Protection: reverse polarity, transients
- High degree of EMC







Product Description

The PC50CND. is a general purpose diffuse-reflective sensor in a compact squared 17 x 50 x 50 mm reinforced PC/ABS-housing. It is useful in applications where basic sensors provide adequate

sensing performance. The long sensing range in addition to sensitivity adjustment gives a very flexible sensor. Light and dark operation is switch selectable.

Ordering Key

PC50CND10RP

CARLO GAVAZZI

Type	-	
Housing style ———		
Housing size —		
Housing material ———		
Housing length —		
Detection principle ———		_
Sensing distance ———		
Output type		
Output configuration ——		

Type Selection

Housing	Range	Ordering no.
W x H x D	(S _n)	Make and break switching
17 x 50 x 50 mm	1 m	PC 50 CND 10 RP

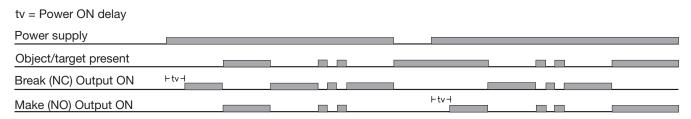
Specifications

Rated operating distance (S_n)	Up to 1 m, reference target Kodak test card R 27, white, 90% reflectivity, 200 x 200 mm
Blind zone	Max. 10 cm
Sensitivity	Adj. by single-turn pot. meter
Temperature drift	≤ 0.5%/°C
Hysteresis (H) Differential travel	3-20%
Rated operational volt. (U _B)	12 to 240 VDC 24 to 240 VAC, 50 to 60 Hz
Rated operational power	≤ 2.0 VA (relay ON)
Output Contact ratings Resistive loads AC 1 DC 1 Mechanical life (typical) Electrical life (typical)	3 A/250 VAC 3 A/30 VDC (> 10 mA/5 VDC) ≥ 15 x 10 ⁶ operations ≥ 1 x 10 ⁵ operations at 3 A/240 VAC
Protection	Reverse polarity, transients
Light source Light type Sensing angle Ambient light	GaAlAs, LED, 880 nm Infrared, modulated ± 2° at 1/2 range Max. 5'000 lux
Operating frequency	20 Hz
Response time OFF-ON (t _{ON}) ON-OFF (t _{OFF})	≤ 25 ms ≤ 25 ms

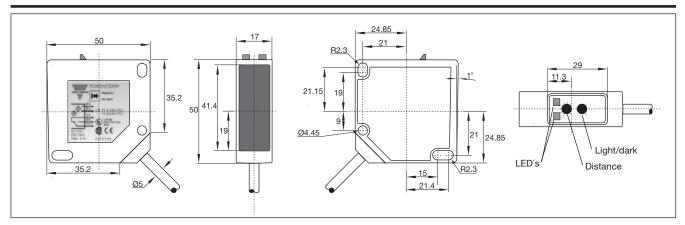
Power ON delay (t _v)	≤ 300 ms	
Output function	Light and dark operation is switch selectable	
Indication function		
Output ON	LED, yellow	
Supply ON, signal stability	LED, green	
Environment		
Overvoltage category	II (IEC 60664/60664A; 60947-1)	
Pollution degree	3 (IEC 60664/60664A; 60947-1)	
Degree of protection	IP 67 (IEC 60529; 60947-1)	
Temperature		
Operating	-20° to +60°C (-4° to +140°F)	
Storage	-25° to +80°C (-13° to +176°F)	
Vibration	10 to 150 Hz, 0.5 mm/7.5 g (IEC 68-2-6)	
Shock	2 x 1 m & 100 x 0.5 m	
	(IEC 68-2-32)	
Rated insulation voltage	250 VAC (rms)	
Housing material		
Body	PC/ABS, grey, reinforced	
Front glass	PC black	
Mounting bracket	Steel, galvanized	
Connection		
Cable	PVC, grey, 2 m, 5 x 0.34 mm ²	
Weight	130 g	
Approvals	UL, CSA	
CE-marking	Yes	



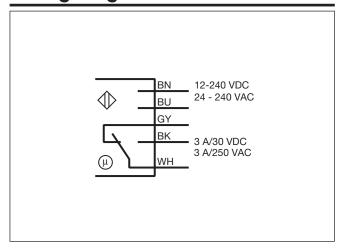
Operation Diagram



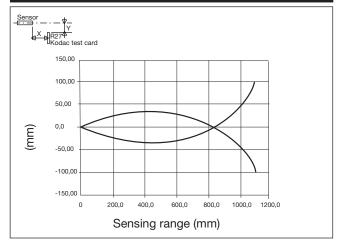
Dimensions



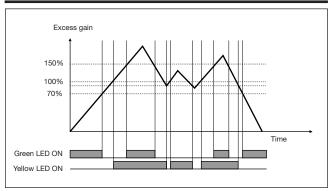
Wiring Diagram



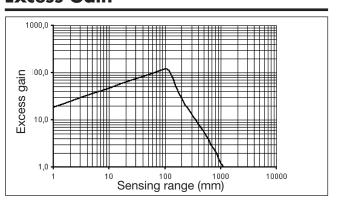
Detection Diagram



Signal Stability

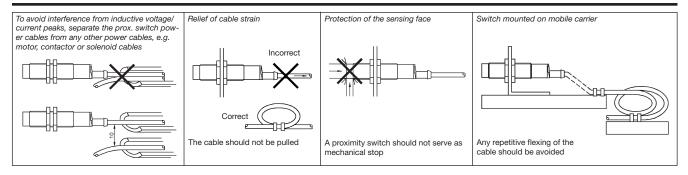


Excess Gain



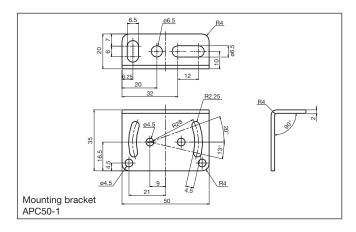


Installation Hints



Delivery Contents

- Photoelectric switch: PC50CND..
- Installation instruction
- Mounting bracket APC50-1
- Packaging: Cardboard box



Accessories

• Screwdriver for adjustment: 77-001

For further information refer to "Accessories"

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