

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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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

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Туре	
Housing style —	
Housing size —	
Housing material ———	
Housing length ———	
Detection principle ———	
Sensing distance	
Output type —	
Output configuration ——	

Type Selection

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

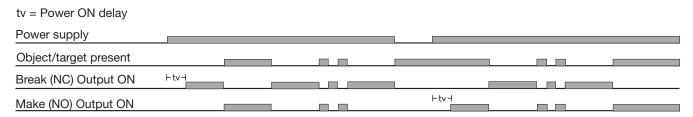
Specifications

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

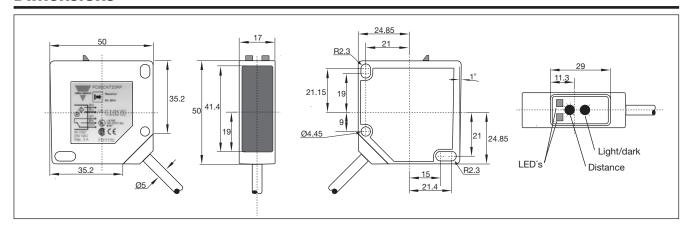
Power ON delay (t _v)	≤ 300 ms
Output function	Light and dark operation is switch selectable
Indication function	
Output ON	LED, yellow
Supply ON, signal stability	LED, green
Environment	
Overvoltage category	II (IEC 60664/60664A; 60947-1)
Pollution degree	3 (IEC 60664/60664A; 60947-1)
Degree of protection	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



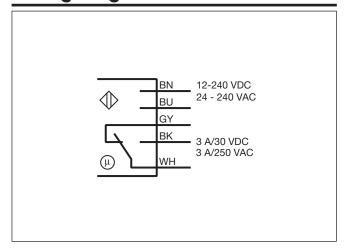
Operation Diagram



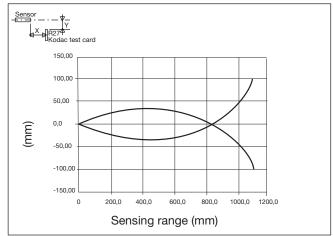
Dimensions



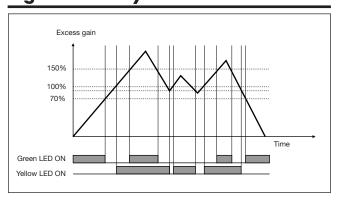
Wiring Diagram



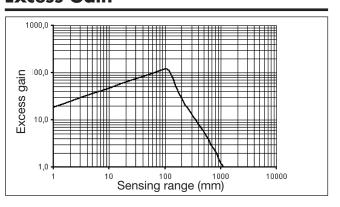
Detection Diagram



Signal Stability

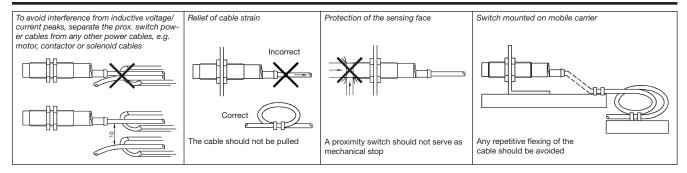


Excess Gain



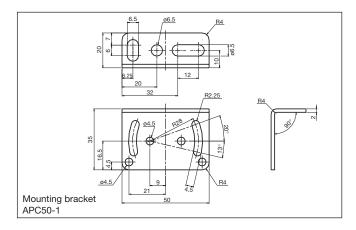


Installation Hints



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"