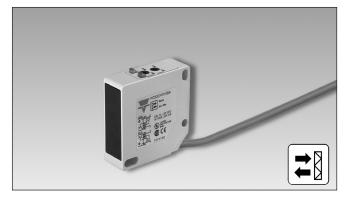
Photoelectrics Retro-reflective, Relay Output Type PC50CNR10RP



PC50CNR10RP



Product Description

The PC50CNR. is a general purpose retro-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.

- Range: 10 m
- 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
- High EMC immunity



Ordering Key

Type______ Housing style______ 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	10 m	PC 50 CNR 10 RP

Note: Reflectors to be ordered separately

Specifications

Rated operating distance (S _n)				
	type ER 4, ref. target			
Blind zone	Max. 10 cm			
Sensitivity	Adj. by single-turn pot.meter			
Temperature drift	≤ 0.5%/°C			
Hysteresis (H)				
Differencial travel	3-20%			
Rated operational volt. (U_B)	12-240 VDC			
	24-240 VAC, 50 to 60 Hz			
Rated operational power	≤ 2.0 VA (relay ON)			
Output				
Contact ratings				
Resistive loads AC 1	3 A/230 VAC			
DC 1	3 A/30 VDC (> 10 mA/5 VDC)			
Mechanical life (typical)	\geq 15 x 10 ⁶ operations			
Electrical life (typical)	\geq 1 x 10 ⁵ operations			
	at 3 A/240 VAC			
Protection	Reverse polarity, transients			
Light source	GaAlAs, LED, 880 nm			
Light type	Infrared, modulated			
Sensing angle	± 2° at 1/2 range			
Ambient light	Max. 5'000 lux			
Operating frequency	20 Hz			

Response time				
OFF-ON (t _{on})	≤ 25 ms			
ON-OFF (t _{OFF})	≤ 25 ms			
Power ON delay (t _v)	≤ 300 ms			
Output function	Light or 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 60068-2-6)			
Shock	2 x 1 m & 100 x 0.5 m			
	(IEC 60068-2-32)			
Rated insulation voltage	250 VAC (rms)			
Housing material				
Body	PC/ABS, grey, reinforced			
Front glass	PC black			
Mounting bracket	Steel, galvanized			

Specifications are subject to change without notice (26.04.2007)



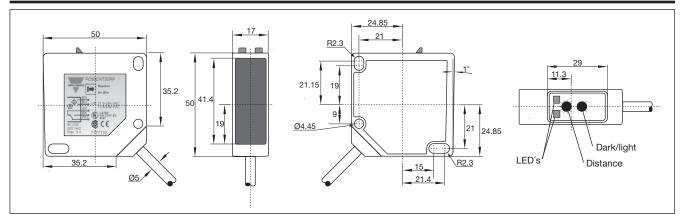
Specifications (cont.)

Connection		Approvals	UL, CSA
Cable	PVC, grey, 2 m, 5 x 0.34 mm ²	CE-marking	Yes
Weight	130 g	Ū	

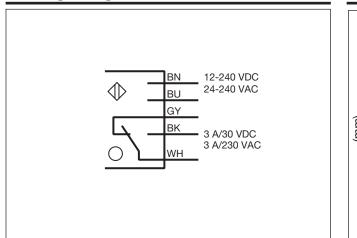
Operation Diagram

tv = Power ON delay Power supply					
Target present					
Object present					
Break (NC) Output ON	⊢ tv ⊣				
Make (NO) Output ON			⊢tv⊣		

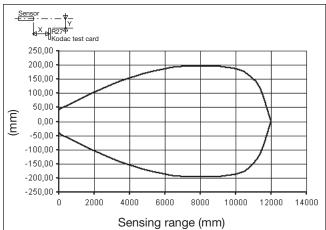
Dimensions



Wiring Diagram

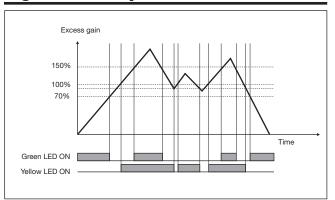


Detection Diagram

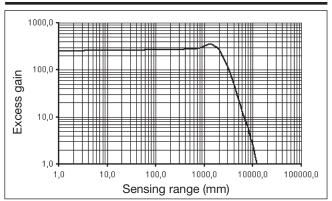


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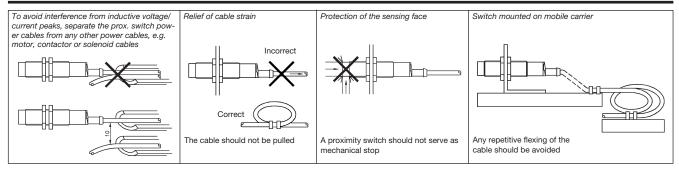
Signal Stability



Excess Gain

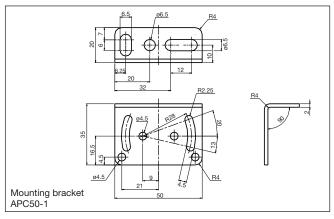


Installation Hints



Delivery Contents

- Photoelectric switch: PC50CNR..
- Installation instruction
- Mounting bracket APC50-1
- Packaging: Cardboard box



Accessories

- Reflectors:
- Screwdriver for adjustment:

ER-series 77-001

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