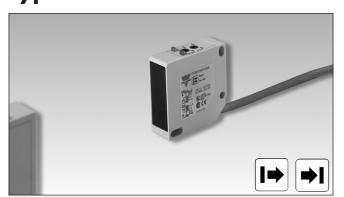
Photoelectrics Through-beam, Relay Output Type PC50CNT20R.





- Range: 20 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
- Excellent EMC







Product Description

The PC50CNT. is a family of general purpose throughbeam sensors in a compact square 17 x 50 x 50 mm reinforced RC/ABS-housing. They are useful in applications where basic sensors provide adequate sensing performance. The long sensing range together with sensitivity adjustment gives a very flexible sensor. Light and dark operation is switch selectable.

Ordering Key

Output configuration

PC50CNT20RP Housing style Housing size Housing material -**Housing length Detection principle** Sensing distance **Output type**

Type Selection

Housing W x H x D	Range S _n	Ordering no. Receiver Make and break switching	Ordering no. Emitter
17 x 50 x 50 mm	20 m	PC 50 CNT 20 RP	PC 50 CNT 20 R

Note: Please order emitter and receiver separately

Specifications Emitter

Rated operational volt. (U_{B})	12-240 VDC 24-240 VAC, 50-60 Hz	Optical angle Indication function	± 2° at 1/2 range
Rated operational power	≤ 2.5 VA	Power supply ON	LED, green
Light source Light type	GaAs LED, 880 nm Infrared, modulated		

Specifications Receiver

Rated operating dist. (S _n)	Up to 20 m	
Blind zone	None	
Sensitivity	Adj. single-turn pot.meter	
Temperature drift	≤ 0.5%/°C	
Hysteresis (H) (differential travel)	3-20%	
Rated operational volt. (U _B)	12-240 VDC 24-240 VAC, 50-60 Hz	
Rated operational power	≤ 2.0 VA (relay ON)	
Output Contact ratings Resistive loads Mechanical life (typ.) Electrical life (typ.)	3 A/230 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	
Operating frequency (f)	20 Hz	
$\begin{tabular}{lll} \textbf{Response time} & OFF-ON (t_{ON}) \\ ON-OFF (t_{OFF}) \end{tabular}$	≤ 25 ms ≤ 25 ms	
Power ON delay (t _v)	≤ 300 ms	
Output function	Light or dark operation is switch selectable	
Indication function Output ON Supply ON, signal stability	LED, yellow LED, green	

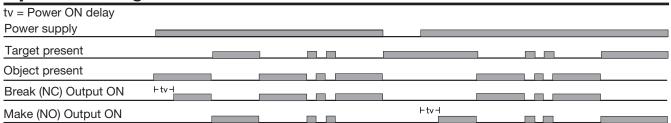


General Specifications

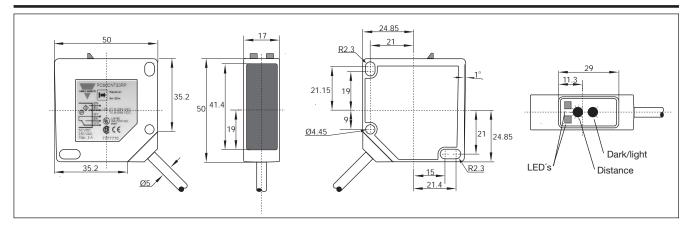
Environment	
Overvoltage category	II (IEC 60664/60664A,
Pollution degree	60947-1) 3 (IEC 60664/60664A,
1 ollation degree	60947-1)
Degree of protection	IP 67 (IEC 60529, 60947-1)
Temperature	
Operating	-20° to +60°C (-4° to +140°F)
Storage	-25° to +80°C (-13° to +176°F)
Vibration	10 to 150 Hz, 0.5 mm/7.5 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
Connection	
Cable receiver	PVC, grey, 2 m, 5 x 0.50 mm ²
Cable emitter	PVC, grey, 2 m, 2 x 0.34 mm ²
Weight	
Emitter	130 g
Receiver	130 g
Approvals	UL, CSA
CE-marking	Yes

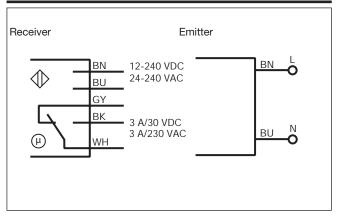
Operation Diagram



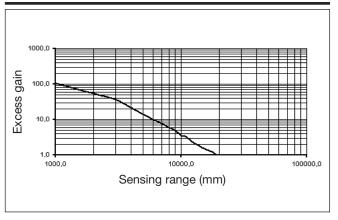
Dimensions



Wiring Diagrams

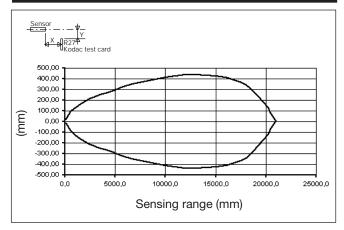


Excess Gain

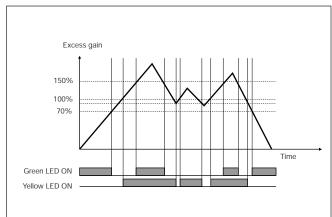




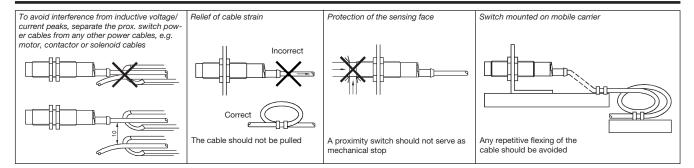
Detection Diagram



Signal Stability

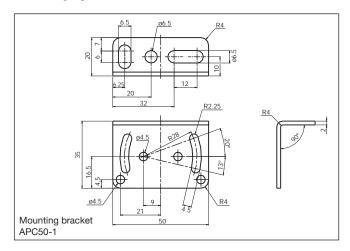


Installation Hints



Delivery Contents

- Photoelectric switch: PC50CNT...
- · Installation instruction
- Mounting bracket APC50-1
- Packaging: Cardboard box



Accessories

- Connector type:

CON.1A..



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