imall

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 Retro-reflective Type PA18CLR30T, AC, PBTP housing



Ordering no.

Break switching

PA18CLR30TCM6

SCR/Plug



- Range: 3 m •
- Modulated infrared light
- Supply voltage: 20 to 250 VAC •
- Output: 500 mA SCR
- Make and break switching functions
- LED output indication
- High immunity to ambient light
- Cable and plug versions



Ordering no.

Make switching

PA18CLR30TOM6

SCR/Plug

Product Description

The PA18CLR.. is a family of inexpensive general purpose Retro-reflective sensors in industrial standard 18 mm cylindrical PBTP housing. They are useful for simple applications where a basic sensor provides adequate sensing performance. The sensors are simple to use and no adjustment are necessary. The output is a 2wire NO or NC thyristor (SCR) output.

Ordering Key	PA18CLR30TOM6			
Type Housing style Housing size Housing material Housing length Detection principle Sensing distance Output type Output configuration Connection type				

Ordering no.

Break switching

PA18CLR30TC

SCR/Cable

Type Selection

Housing Rated		Ordering no.		
diameter operating		SCR/Cable		
dist. (S _n)		Make switching		
M18	3 m	PA18CLR30TO		

Note: Plugs and reflectors to be ordered separately

Specifications

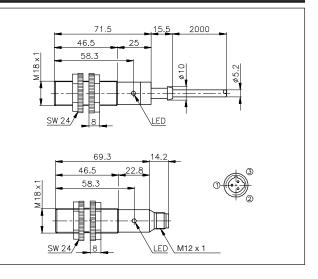
Rated operating dist. (S_n)	Up to 3 m Ref. reflector type ER4, \emptyset 84 mm			
Temperature drift	0.4%/K			
Hysteresis (H) (Differential travel)	3 to 20%			
Rated operational volt. (U_B)	20 to 250 VAC, 45 to 65 Hz			
Output current (AC 12, AC 140) Continuous (I _e) Short-time (I)	≤ 500 mA ≤ 3 A, max. 20 ms			
Min. operational current (Im)	10 mA			
OFF-state current (I _r)	< 5 mA, typ. 2.6 mA			
Voltage drop (U _d)	≤ 10 VAC, typ. 7 VAC			
Protection	Transients			
Transient voltage	1 kV/0.5 J			
Light source	GaAlAs LED, 880 nm			
Light type	Infrared, modulated			
Optical angle	± 2.2°			
Light spot size	150 mm at 2 m			
Ambient light	Max. 10,000 lux			

Operating frequency (f)	Max. 20 Hz, light/dark ratio 1:2			
Response time				
OFF-ON (t _{on})	≤ 20 ms			
ON-OFF (t _{OFF})	≤ 30 ms			
Power ON delay (t _v)	Typ. 100 ms			
Indication function Output ON	Dark (NC) or light (NO) switching LED, yellow			
Environment				
Overvoltage category	III (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	-30° to + 70°C (-22° to 158°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)			
Dielectric voltage	1600 V (IEC 60364-4-41)			
-	,			



Specifications (cont.) Housing material Body PBTP grey thermoplastic polyester Luran[®], black Front Cable end Polyester, black Nuts Reinforced nylon Connection Grey, 2 m, 2 x 0.5 mm², Cable oilproof PVC Plug M12 x 1 Cables for plug (M6) CON.6A-.. serie Weight Cable version 105 g 22 g Plug version Approvals UL, CSA **CE-marking** Yes

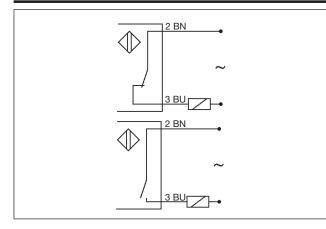
Dimensions



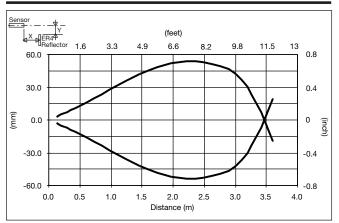
Operation Diagram

Power supply				
Object present, light beam interrupted		ı		
Output ON: Break switching (NC)		1	FTv⊣	
Make switching (NO)	FTv⊣			

Wiring Diagrams

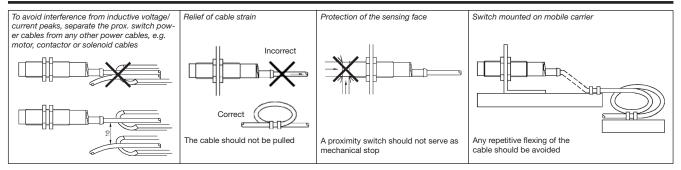


Detection Diagram



CARLO GAVAZZI

Installation Hints



Delivery Contents

- Photoelectric switch: PA18CLR30T.
- 2 nuts
- Packaging: plastic bag

Accessories

- Reflectors: ER series
- Connector type CON.6A-.. serie
- MB18A
- APA18-RAR

For further information refer to "Accessories"