

## Product Description

The PA18CLD.. is a family of inexpensive general purpose Diffuse-reflective sensors in industrial standard 18 mm cylindrical PBTP housing. They are useful for simple applications where a basic sensor provides adequate

- Range: $\mathbf{4 0 0} \mathbf{~ m m}$ adjustable 100, 200 or 400 mm fixed
- Modulated, infrared light
- Supply voltage: 20 to 250 VAC
- Output: 500 mA SCR
- Make or break switching function, LED indication
- High immunity to ambient light
- Cable and plug versions

sensing performance. The sensors are simple to use and no adjustment are necessary (except 400 mm diffuse adjustable type). The output is a 2 -wire NO or NO thyristor (SCR) output.

Ordering Key PA18CLD04TCM6SA
Type
Housing style
Housing size
Housing material
Housing length
Detection principle
Sensing distance
Output type
Output configuration
Connection type
Adjustable


## Specifications (cont.)

| 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 | $-20^{\circ}$ to $+60^{\circ} \mathrm{C}\left(-4^{\circ}\right.$ to $\left.140^{\circ} \mathrm{F}\right)$ |
| Storage | $-30^{\circ}$ to $+70^{\circ} \mathrm{C}\left(-22^{\circ}\right.$ to $\left.158^{\circ} \mathrm{F}\right)$ |
| Vibration | 10 to $150 \mathrm{~Hz}, 0.5 \mathrm{~mm} /-$ <br> 7.5 g (IEC 60068-2-6) |
| Shock | $\begin{aligned} & 2 \times 1 \mathrm{~m} 100 \times 0.5 \mathrm{~m} \\ & (\text { IEC } 60068-2-32) \end{aligned}$ |
| Dielectric voltage | $\begin{aligned} & 1600 \text { VAC } \\ & \text { (IEC 60364-4-41) } \end{aligned}$ |


| Housing material Body |  |
| :---: | :---: |
|  | PBTP, grey thermoplastic polyester |
| Front | Luran ${ }^{\text {, }}$, black |
| Cable end | Polyester, black |
| Nuts | Reinforced nylon |
| Connection |  |
| Cable | Grey, $2 \mathrm{~m}, 2 \times 0.5 \mathrm{~mm}^{2}$, oilproof PVC, |
| Plug | M12 $\times 1$ |
| Cables for plug (M6) | CON.6A-... series |
| Weight |  |
| Cable version | 105 g |
| Plug version | 22 g |
| Approvals | UL, CSA |
| CE-marking | Yes |

## Operation Diagram

Power supply
Object present, light received
Output ON: Make switching (NO)

## Dimensions



## Wiring Diagrams



## Installation Hints



## Detection Diagrams




## Delivery Contents

- Photoelectric switch: PA18CLD04T
- 2 nuts
- Packaging: plastic bag



## Accessories

- Fibre optics
- Connector type CON.6A-.. series.
- Screw driver for adjustments: 77-000
- MB18A
- APA18-RAR

For further informations refer to "Accessories"

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