

**Description**

- Operation mode and max sensing range:  
**Thru-beam: 0-60 m**  
**Diffuse proximity: 0-4 m**
- 230 V ac, 115 V ac, 24 V ac or 24 V dc supply voltage
- Manual sensitivity adjustment
- 1 relay or 1 transistor output
- Switch selectable light or dark function
- Switch selectable long or short range
- Power and output indicators
- 11-pole DIN socket connection



The PA 10 is a 1-channel photoelectric amplifier. The PA 10 A is to be used in conjunction with a remote transmitter LT and receiver LR from series 101, whilst the PA 10 B is intended for use with series 100, 110, and 120.

This amplifier series offers manual sensitivity adjustment via an integral potentiometer located on the front panel of the amplifier. Output can be selected from either a relay or an NPN/PNP transistor output. Light or dark function and long or short range are switch selectable.

| Technical Data                   |  |
|----------------------------------|--|
| Supply voltage                   | 24 V dc, 24 V ac, 115 V ac or 230 V ac           |
| Voltage tolerance                | +/- 15 %   |
| Current consumption              | Max. 3,2 VA                                      |
| Output                           | Relay<br>Transistor                              |
|                                  | 1 open / 1 close, 250 V ac / 3 A, 120 V ac / 5 A |
|                                  | 40 mA / 30 V dc                                  |
| Alarm output                     | -  |
| Power on indicator               | Green LED  |
| Output indicator                 | Red LED  |
| Signal level indicator           | -  |
| LR receiver failure indicator    | -  |
| LT transmitter failure indicator | -  |
| Sensor monitor LED drive         | -  |
| Hysteresis                       | Approx. 40 %                                     |
| Operation frequency              | Relay<br>Transistor                              |
|                                  | 10 Hz<br>12 Hz                                   |
| Response time $t_{ON} / t_{OFF}$ | Relay<br>Transistor                              |
|                                  | 50 ms / 50 ms<br>40 ms / 40 ms                   |
| Delay $t_{ON} / t_{OFF}$         | -  |
| Housing material                 | Polycarbonate                                    |

| Environmental Data     |                |
|------------------------|----------------|
| Temperature, operation | -10 to +50 °C  |
| Temperature, storage   | -40 to +80 °C  |
| Sealing class          | IP 40          |
| Approvals              | CE UK CA PA GB |

Available Types

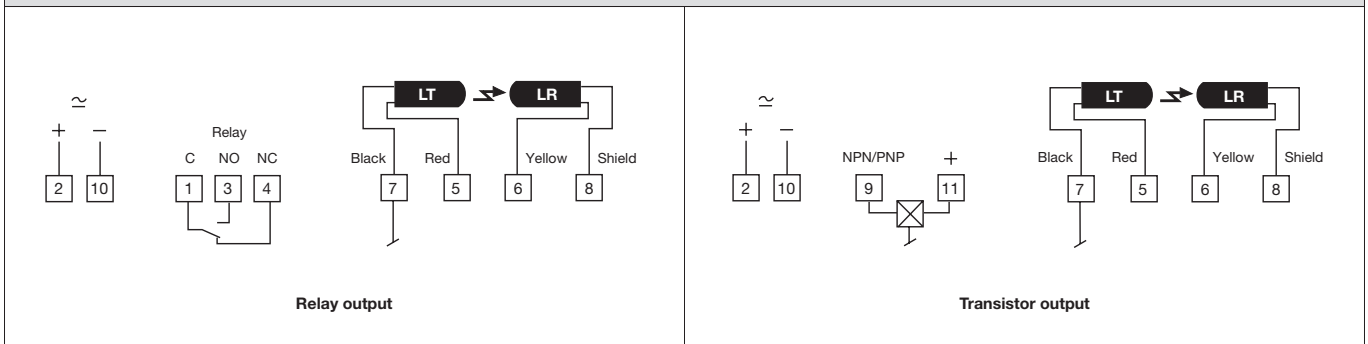
| Model   | Connection            | Time Delay  | Supply Voltage | 24 V dc         | 24 V ac     | 115 V ac    | 230 V ac    |
|---------|-----------------------|-------------|----------------|-----------------|-------------|-------------|-------------|
|         |                       |             | Output         | Order Reference |             |             |             |
| PA 10 A | 11-pole<br>DIN socket | -           | Relay          | PA 10 A 513     | PA 10 A 512 | PA 10 A 511 | PA 10 A 510 |
|         |                       |             | NPN and PNP    | PA 10 A 613     | PA 10 A 612 | PA 10 A 611 | PA 10 A 610 |
| -       |                       | Relay       | PA 10 B 513    | PA 10 B 512     | PA 10 B 511 | PA 10 B 510 |             |
|         |                       | NPN and PNP | PA 10 B 613    | PA 10 B 612     | PA 10 B 611 | PA 10 B 610 |             |

Note: Remote sensors and 11-pole DIN socket to be ordered separately.

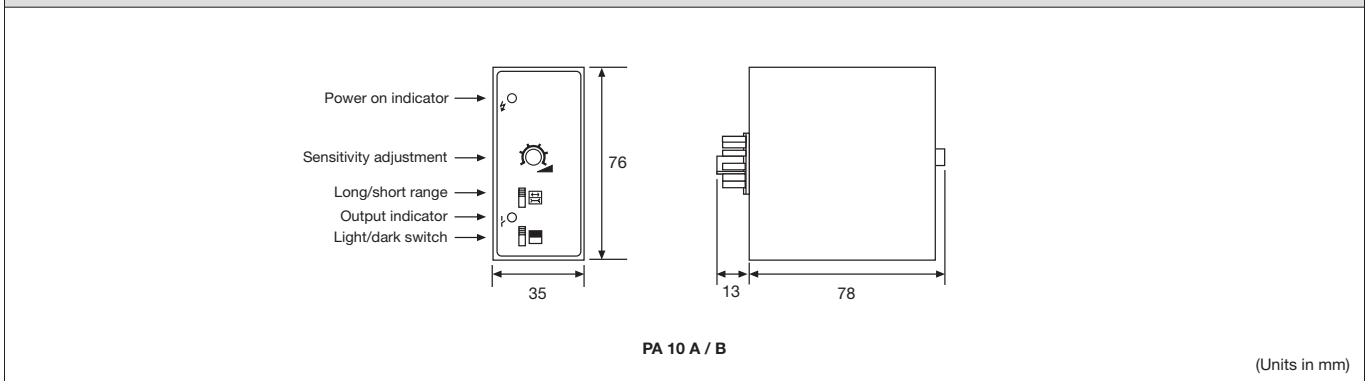
Applicable Remote Sensors and Ranges

| Series             | Thru-beam | Diffuse Proximity |
|--------------------|-----------|-------------------|
| 101 (only PA 10 A) | 11 m      | 0,9 m             |
| 100 (only PA 10 B) | 15 m      | 1,1 m             |
| 110 (only PA 10 B) | 35 m      | 2,0 m             |
| 120 (only PA 10 B) | 60 m      | 4,0 m             |

Wiring Diagrams



Dimensions and Descriptions



Telco reserves the right to change specifications without notice.