# Telco;

## Product Data

Electrical Data	
Supply voltage	24 V dc, 24 V ac, 115 V ac or 230 V ac
Voltage tolerance	+/- 15%
Power consumption	Max. 3,2 VA
Output: relay	1 open / 1 closed, 250 V ac / 3 A, 120 V ac / 5 A
Output: transistor	40 mA / 30 V dc

Environmental Data	
Temperature, operation	-10 to +50 °C
Sealing class	IP 40
Approvals	K (€ 27 ®®

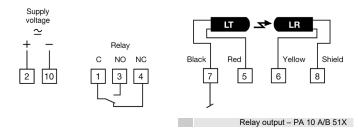
Applicable Remote Sensors & Sensing Ranges					
Remote Sensor Series	PA 10 A	PA 10 B			
	101	100	110	120	
	Sensing Range				
Long range mode	11 m	15 m	35 m	60 m	
Short range mode	3 m	5 m	12 m	20 m	

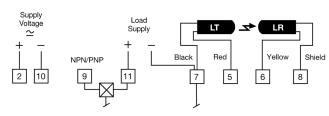
## PA 10 A/B Power on indicator -Sensitivity adjustment -Ø Long/short range Output indicator -Light/dark switch -

#### Connection

Illustration

#### Wiring Diagrams





Transistor output – PA 10 A/B 61X

#### Connection Steps

- Check the power supply and output of the amplifier type. 1
- 2 Make sure power is off. Connect wires to the 11-pin socket according to wiring diagram.
- 3 Plug-in the amplifier into the 11-pin socket. Turn power on.
- When the amplifier is operating, the green LED (power-on) is on.

### Adjustments

Long/Short Range Selection				
Long range mode enables the system to operate at 100% (maximum range).				
Short range mode enables the system to operate at 30% of maximum range, in order to ease sensitivity adjustment at shorter ranges.				
Long range				
Short range				

Output Mode Selection				
The output mode can be selected via the light/dark switch. Refer to Output Logic table for reference.				
Light Operated	Enables the output to be inactive when there is an object present.			
Dark Operated	Enables the output to be active when there is an object present.			

Output Logic					
Detection (thru beam)	Output Relay	Relay Output	Transistor Output		Output
	mode	Output	NPN	PNP	IIIulcatoi
Object present	Dark	1 3 4	Closed	Open	On
	Light	1 3 4	Open	Closed	Off
Object absent	Dark	1 3 4	Open	Closed	Off
	Light	1 3 4	Closed	Open	On

#### Sensitivity Adjustment

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output changes.

Maximum sensitivity can be used for most applications and is advised for applications with contaminated environments e.g. dirt, water and dust. Increase the sensitivity to maximum by turning the potentiometer to full clockwise position.

Sensitivity adjustment may be required in applications where objects to be detected are small or translucent. Proceed with the following steps:

Adjust the sensitivity to maximum by turning the potentiometer to full clockwise Check there is no object present interrupting the beam and the sensor pair is 2 correctly aligned and within their specified sensing range. Select target object with smallest dimensions and most translucent surface. Place target object between remote transmitter and receiver sensors. If the output status changes, adjustment is not required. If the output status has not changed proceed to step 5. Decrease the sensitivity by turning the potentiometer counter clockwise until the

Remove target object. Observe the output status has changed.

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Made in Denmark

Warning