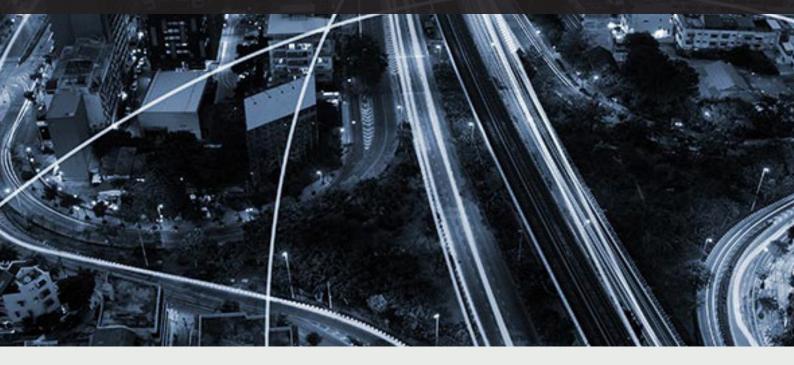


PA11 series DATASHEET



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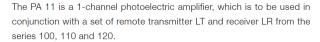


PHOTOELECTRIC AMPLIFIER SERIES

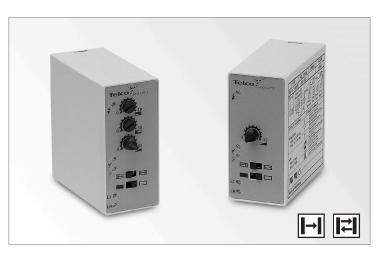
PA 11

Description

- Operation mode and max sensing range: Thru-beam: 0-70 m
 Diffuse proximity: 0-5 m
- 230 V ac, 115 V ac, 24 V ac or 24 V dc supply voltage
- Manual sensitivity adjustment
- Sensor LED-drive
- Automatic sensor test
- Adjustable on/off time delay
- 1 relay and 1 transistor output or 2 transistor outputs
- Switch selectable light or dark function
- Switch selectable long or short range
- Power, output and signal level indicators
- 11-pole DIN socket connection



This amplifier series offers manual sensitivity adjustment via integral potentiometers located on the front panel of the amplifier. Output can be selected from either a relay and NPN or NPN and PNP transistor outputs with or without a 0-10 sec on/off time delay. Light or dark function and long or short range are switch selectable.



The microprocessor controlled sensor test ensures that the system will automatically detect and indicate a faulty transmitter or receiver – cable break or electrical failure – during operation, through the relevant LED located on the front panel. The sensor LED drive powers the optional monitor LEDs available on the remote sensors – output (LT) and power (LR).

Technical Data				
Supply voltage		24 V dc, 24 V ac, 115 V ac or 230 V ac		
Voltage tolerance		+/- 15 %		
Current consumption		Max. 3,5 VA		
Output	Relay	1 open / 1 close, 250 V ac / 3 A, 120 V ac / 5 A		
	Transistor	60 mA / 30 V dc		
Power on indicator		Green LED		
Output indicator		Yellow LED		
Signal level indicator		Green LED		
LR sensor failure indicator		Red LED		
LT sensor failure indicator		Red LED		
Sensor monitor LED drive		The green monitor LED on the receiver indicates 'Power ON' The yellow monitor LED on the transmitter indicates 'PA 11 output activated'		
Hysteresis		Approx. 45 %		
Operation frequency	Relay	14 Hz		
	Transistor	20 Hz		
Response time t _{ON} / t _{OFF}	Relay	35 ms / 35 ms		
	Transistor	25 ms / 25 ms		
Delay t _{ON} / t _{OFF}	PA 11 A	0 – 10 sec, adjustable		
Housing material		Noryl		

Environmental Data				
Temperature, operation	−10 to +50 °C			
Temperature, storage	−40 to +80 °C			
Sealing class	IP 40			
Approvals	m ² P ₂ ∋)			





Available Types								
Model	Connection	Supply Voltage	24 V dc	24 V ac	115 V ac	230 V ac		
		Output	Order Reference					
PA 11 A	- 11-pole DIN socket	Relay and NPN	PA 11 A 303T	PA 11 A 302T	PA 11 A 301T	PA 11 A 300T		
On/Off delay		NPN and PNP	PA 11 A 403T	PA 11 A 402T	PA 11 A 401T	PA 11 A 400T		
PA 11 B		Relay and NPN	PA 11 B 303T	PA 11 B 302T	PA 11 B 301T	PA 11 B 300T		
		NPN and PNP	PA 11 B 403T	PA 11 B 402T	PA 11 B 401T	PA 11 B 400T		

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

Applicable Remote Sensors and Ranges						
Series	Thru-beam	Diffuse Proximity				
100	18 m	1,1 m				
110	40 m	2 m				
120	70 m	5 m				

