

Photoelectrics Retro-reflective, Polarized Type PA3P



- Range: 3 m
- Polarized modulated, visible red light
- Adjustable sensitivity
- Rated operational voltage: 10 to 30 VDC
- Output: 200 mA, NPN or PNP
- Make and break switching funct., with LED indication
- Protection: Reverse polarity, short circuit, overload
- Operating frequency: 1 kHz
- High immunity to ambient light
- 18 x 36 x 63 mm metal housing, IP 67
- Quick mounting system, timer options



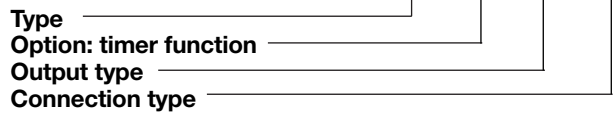
Product Description

Polarized, retro-reflective photoelectric switch. Range 3 m. Reliable detection through narrow beam. Quick mounting in 4 positions with includ-

ed mounting rail. Sturdy metal housing. IP 67. 2 m PVC cable connection or standard M 12 plug. Timer options.

Ordering Key

PA3P A NPA-1



Type Selection

Housing W x H x D Rated operating dist. (S _n)	Timer function Option	Ordering no. NPN/cable Make & break swit.	Ordering no. NPN/plug Make & break swit.	Ordering no. PNP/cable Make & break swit.	Ordering no. PNP/plug Make & break swit.
18 x 36 x 63 3 m	Without timer Delay on operate Delay on release One shot	PA 3P NPA PA 3PA NPA PA 3PB NPA PA 3PT NPA	PA 3P NPA-1 PA 3PA NPA-1 PA 3PB NPA-1 PA 3PT NPA-1	PA 3P PPA PA 3PA PPA PA 3PB PPA PA 3PT PPA	PA 3P PPA-1 PA 3PA PPA-1 PA 3PB PPA-1 PA 3PT PPA-1

Note: Plugs and reflectors to be ordered separately.

Specifications

Rated operating dist. (S_n)	3 m, with reflector type ER 22, ref. target	Optical angle	±1°
Temperature drift	0.4%/K	Light spot size	65 mm at 2m
Rated operational volt. (U_B)	10 to 40 VDC (ripple incl.)	Ambient light	Max. 10,000 lux
Ripple (U_{rpp})	10%	Operating frequency (f)	1000 Hz, light/dark ratio 1:2
Output current		Response time	
Continuous (I _e)	≤ 200 mA	OFF-ON (t _{ON})	≤ 660 μs
Short-time (I)	200 mA, Max. load capacity 100 nF	ON-OFF (t _{OFF})	≤ 330 μs
No load supply current (I_o)	≤ 40 mA	Power ON delay (t_v)	Typ. 100 ms
OFF-state current (I_l)	Max. 100 μA	Indication	
Voltage drop (U_d)	≤ 2.5 VDC	Output ON	LED, yellow
Protection	Reverse polarity, overload short-circuit, transients	Optional timer	
Transient voltage	≤ 1 kV/0.5 J	Delay on operate (function A)	0.1 to 14 s ±4 s
Sensitivity	Adjustable, 20 turn pot	Delay on release (function B)	0.1 to 14 s ±4 s
Light source	GaAlAs LED 660 nm	One shot (function T)	0.1 to 14 s ±4 s
Light type	visible red polarized, modulated, synchronized	Environment	
		Overvoltage category	III (IEC 664/664A; 947-1)
		Pollution degree	3 (IEC 664/664A; 947-1)
		Degree of protection	IP 67 (IEC 529; 947-1)
		Temperature	
		Operating	-20° to +60°C (-4° to 140°F)
		Storage	-30° to +70°C (-22° to 158°F)



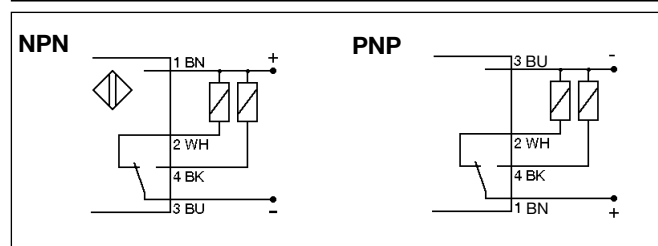
Specifications (cont.)

Vibration	10 to 150 Hz, 0.5 mm/7.5 g (IEC 68-2-6)
Shock	2 x 1 m & 100 x 0.5 m (IEC 68-2-32)
Dielectric voltage	500 VAC (RMS)
Housing material	
Body	Aluminium, anodized
Front	Polycarb., glass-reinforced
Back	Polycarbonate, black
Lenses	Acrylic
Mounting rail APA-3	Aluminium, anodized
Mounting bracket APA-2	Iron, black
Connection	
Cable	2 m, 4 x 0.35 mm ² , Ø 5.2 mm, oilproof PVC, Note: Other lengths on request CONH1A-..
Plug	
Weight	175 g cable version 85 g plug version

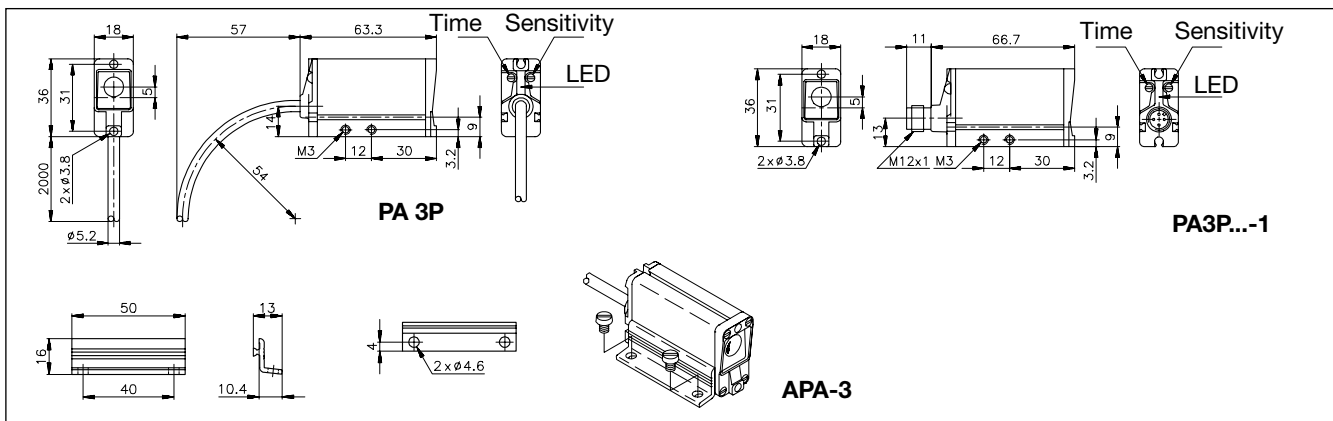
Truth Table

	Make switching		Break switching	
	Yes	No	Yes	No
Object present	Yes	No	Yes	No
LED	OFF	ON	OFF	ON
Load	Non-active	Active	Active	Non-active
Output NPN	High	Low	Low	High
Output PNP	Low	High	High	Low

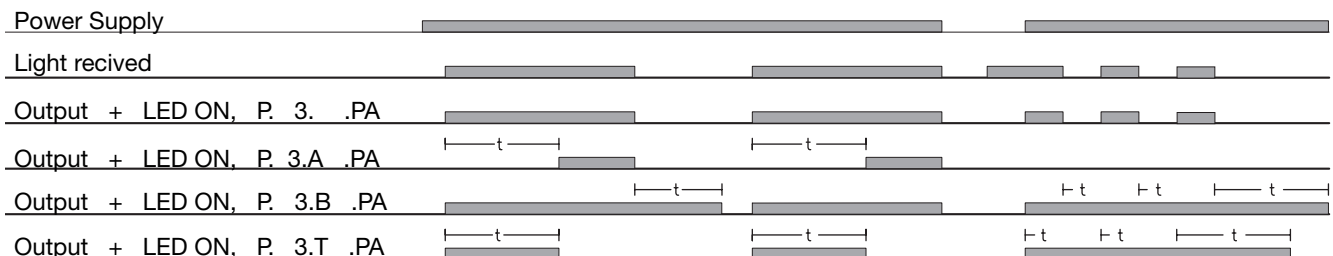
Wiring Diagrams



Dimensions



Operation Diagram



Accessories

- Reflectors: ER series.
- Adjustable mounting bracket APA-2 with two M 3 x 10 mm screws, washers and M 3 nuts
- Plugs: Standard M 12, CONH1A-.. serie.

Delivery Contents

- Photoelectric switch: PA3P.
- Rail mounting bracket APA-3
- Screwdriver for adjustments, 77-000
- Installation instruction
- **Packaging:** Carton box

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