Photoelectrics Diffuse-reflective Type EO1804TB.., AC, Metal-housing





- Range: 400 mm adjustable
- 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
- Heavy duty M18 metal housing, IP67
- Cable and plug versions

Product Description

Diffuse-reflective photoelectric switch with extended range up to 400 mm. Easily adjustable sensitivity with 270° potentiometer. LED output indication. Short M 18 metal housing for heavy duty applications. IP 67. Easy mounting. DC and AC types, fully protected. Cable and plug versions. Option: fibre optics.

Ordering Key	EO 18 04 TBOS-3
Type Housing diameter Range Output type Housing material Connection type	

Type Selection

Housing diameter	Rated operating dist. (S _n)	Ordering no. SCR/cable Make switching	Ordering no. SCR/plug Make switching	Ordering no. SCR/cable Break switching	Ordering no. SCR/plug Break switching
M 18	400 mm	EO 1804 TBOS	EO 1804 TBOS-3	EO 1804 TBCS	EO 1804 TBCS-3

Note: Plugs to be ordered separately

Specifications

Rated operating dist. (S _n) Adjustable	Up to 400 mm 200 x 200 mm
Sensitivity	
	270° single turn pot. meter
Temperature drift	0.4%/K
Hysteresis (H)	
(Differential travel)	3 to 20%,
Rated operational volt. (U _B)	20 to 250 VAC,
•	45 to 65 Hz
Output current (AC12, AC140)	
Continuous (I _e)	≤ 500 mA
Short-time (I)	≤ 3A, max. 20 ms
Min. operational current (I _m)	10 mA
OFF-state current (Ir)	Max < 5 mA, typ. 2.6 mA
Voltage drop (U _d)	Max \leq 10 V, typ. 7 VAC
Protection	Transients
Transient voltage	Max 1 kV/0,5 J
Light source	GaAlAs LED, 880 nm
Light type	Infrared, modulated synchronized
Sensing angle	±25° at 1/2 range
Ambient light	Max 10'000 lux
Operating frequency (f)	20 Hz, light/dark ratio 1:2

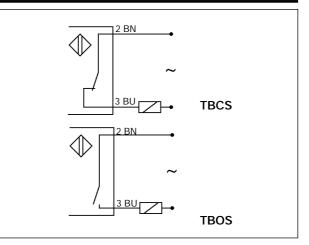
Response time	
OFF-ON (t _{on})	≤ 20 ms
ON-OFF (t _{off})	≤ 30 ms
Power ON delay (t _v)	Typ. 100 ms
Indication function	Dark (NC) or light (NO) switching
Output ON	LED, yellow
Environment	
Overvoltage category	III (IEC 60664/60664A; 60947-1)
Pollution degree	3 (IEC 60664/60664A; 60947-1)
Degree of protection	IP 67 (IEC 60529; 60947-1)
Temperature	
Operating	-20° to +60°C (-4° to 140°F)
Storage	-30° to + 70°C (-22° to 158°F)
Vibration	10 to 150 Hz, 0.5 mm/-
	7.5 g (IEC 60068-2-6)
Shock	2 x 1 m 100 x 0.5 m
	(IEC 60068-2-32)
Dielectric voltage	1600 VAC
	(IEC 60364-4-41)
Housing material	
Body	Nickel plated brass
Front	Luran [®] , black
Cable end	Polyester, black
Nuts	Nickel plated brass



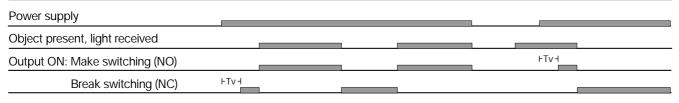
Specifications (cont.)

Connection	
Cable	Grey, 2 m, 2 x 0.5 mm ² ,
Plug	oilproof PVC, M12 x 1
Cables for plug (-6)	CON.3A series
Weight	
Cable version Plug version	150 g 65 g
Approvals CE-marking	UL, CSA Yes

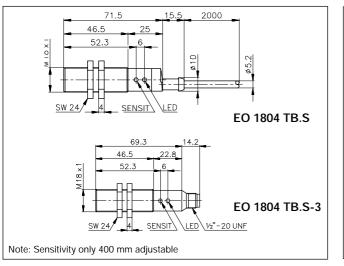
Wiring Diagrams



Operation Diagram



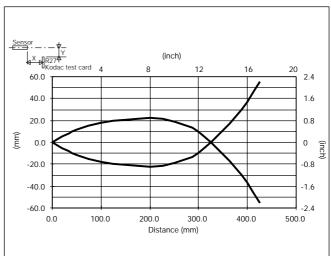
Dimensions



Delivery Contents

- Photoelectric switch: EO1804TB..
- 2 nuts
- Packaging: plastic bag

Detection Diagram



Accessories

- Plugs CON.3A-.. series.
- Screw driver for adjustments: 77-000
- MB18AAPA18-RAR

For further informations refer to "Accessories"