



OJ10000+U1+E123

Reflection light beam switch

OJ10000+U1+E123

with terminal compartment

CE



- ◆ Detection range up to 10 m
- ◆ Light/dark ON, switchable
- ◆ Visible red light
- ◆ Glare protected with polarisation filter
- ◆ Pre-fault indication and output (dynamic and static)
- ◆ Protected against mutual interference
- ◆ Position of the sensor head adjustable
- ◆ Protection degree IP67
- ◆ Scratch resistant mineral glass lens

Date of edition 10/05/04

General specifications

Effective detection range	0 ... 10 m
Light source	LED
Approvals	CE
Reference target	reflector C110_2
Light type	red, alternating light
Filter	Polarisation filter
Ambient light limit	10000 Lux

Indicators/operating means

Operating display	LED green
Function display	LED yellow: switching state LED red: stability control (flashing)
Operating elements	Light/dark changeover switch selection of the operating frequency selection of the switching frequency pulse extension stability control dynamic/static

Electrical specifications

Operating voltage	10 ... 30 V DC
Ripple	10 %
No-load supply current I_0	≤ 45 mA
Time delay before availability t_v	≤ 20 ms

Output

Output of the pre-fault indication	1 push-pull output pnp NO / npn NC (10 mA)
Switching type	light/dark switching
Signal output	1 push-pull output npn/pnp
Switching voltage	max. 30 V DC
Switching current	≤ 100 mA
Voltage drop U_d	$\leq 2,5$ V
Switching frequency f	1,5 kHz / 200 Hz switchable (S1)
Switch-on delay t_{on}	2,5 ms 0,3 ms at 1.5 kHz
Response time	$\leq 0,3$ ms at 1.5 kHz $\leq 2,5$ ms by 200 kHz
Timer function	pulse extension 20 ms, switchable

Standard conformity

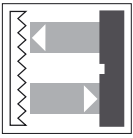
Standards	EN 60947-5-2
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Ambient conditions

Ambient temperature	-25 ... 70 °C (248 ... 343 K)
Storage temperature	-40 ... 80 °C (233 ... 353 K)

Mechanical specifications

Protection degree	IP67
Connection	terminal compartment PG13.5, core cross-section ≤ 2.5 mm ²
Material	
Housing	PBT
Optical face	Scratch resistant mineral glass lens
Mass	200 g



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Curves/Diagrams

