Through-beam sensors, with terminal strip connection

- **DC or AC/DC supply voltage**
- ***Short-circuit protected dual transistor outputs*** **(NPN oder PNP) or relay output with 1 change over contact (light-on/dark-on selectable)**
- ***Reverse polarity potection*** **and** ***power-up output suppression***
- ***Light reserve warning indicator***
- ***Test input*** **on DC sensors**
- **Versions with red light and beam angle < ± 2° available**
- **Plug-in terminal strip connector**
- **Options: -** ***timer*** **with selectable functions (on AC/DC sensors)**
  - ***light reserve warning output*** **(on DC sensors)**
- **EMC tested according to IEC 801 and EN 50081-2/EN 50082-2**

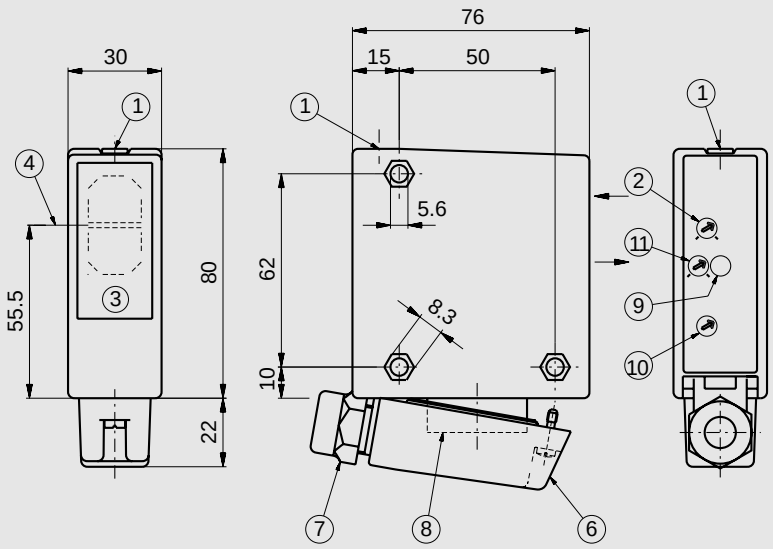
CE

	Emitter	Receiver		Emitter	Receiver
Product designation[1]	**OFS 1KA 841 I1**	**OFE 1NA 800 I1**	**OFE 1PA 800 I1**	**OFS 7KA 840 I1**	**OFE 7RW 800 I1**
Output		NPN (light-/dark-on)	PNP (light-/dark-on)		Relay 1 CO
Connection	Plug-in terminal strip				
Range adjustment	No	Yes		No	Yes
Optical data [2]					
Max. *range*	50 m				
Emitter	Infrared-LED, 880 nm, pulsed			Infrared-LED, 880 nm, pulsed	
Electrical data [2]					
Supply voltage U_S	10...30 VDC			24...240 VAC/DC	
Allowable ripple	+/- 10% of U_S				
Current consumption (without load)	< 25 mA	< 15 mA		< 2 VA	
Max. load current I_L		200 mA			3A
Residual voltage		< 1,6 V			
Max. switching frequency		1000 Hz			25 Hz
Test input: emitter on emitter off	+U_S or open < 1 V				
Environmental data					
Sealing	IP 67				
Temperature T_A (operating and storage)	-25...+65 °C				
Weight	ca. 150 g			ca. 160 g	

Options [1]					
Timer functions (selectable)					on delay off delay one-shot
Timing range					0,1...6 sec.
Max. load current of light reserve warning output[3]	200 mA				

1) For product designation of sensors with options see designation code on page 105.
2) When not otherwise noted, all technical data at T_A = 25 °C and U_S = 24 VDC or U_S = 220 VAC, respectively.
3) Light reserve warning output static or dynamic, normally open or normally closed.

Dimensions (102 mm x 76 mm x 30 mm)



① Emitter: operation indicator
Receiver: function indicator

② Range adjustment

③ Glass covered optics

④ Center of the optical axis

⑥ Cover to connector area

⑦ Cable outlet for cable
∅ 6... 10 mm

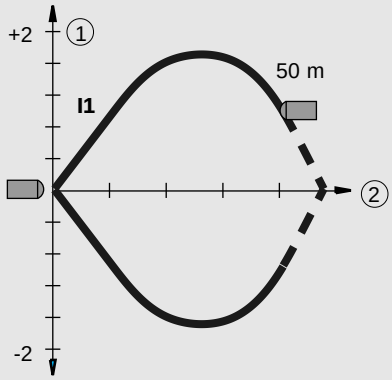
⑧ Plug-in terminal strip connector

⑨ Output state indicator (Timer module)

⑩ Timer function selector (Timer module)

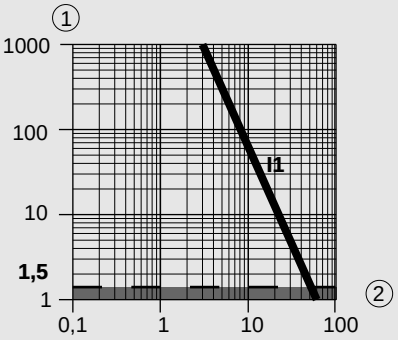
⑪ Time adjustment (Timer module)

Optical diagrams



Typical beam diameter

① Diameter in (m)
② Range in (m)

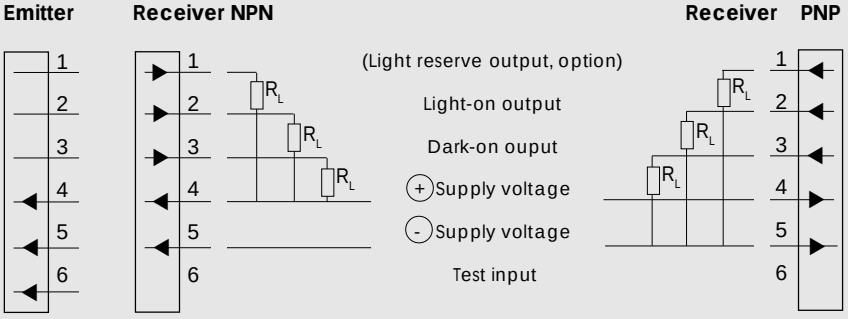


Typical excess gain curve

① Gain factor
② Range in (m)

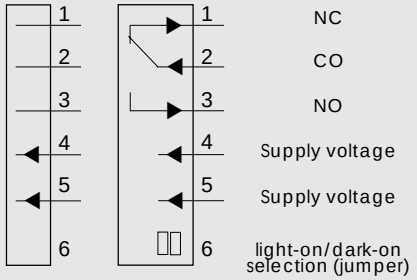
Wiring diagram

DC version



Light-on output: Output energized when no object is present.
Dark-on output: Output energized when object is present.

AC/DC version



No protective isolation!

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