



### Specifications

#### Optical data

Typ. operating range limit (TK(S) 50x50) <sup>1)</sup> 0 ... 8.5m  
 Operating range <sup>2)</sup> see tables  
 Light source LED (modulated light)  
 Wavelength 660nm (visible red light/polarised)

#### Timing

Switching frequency 1000Hz  
 Response time 0.5ms  
 Delay before start-up ≤ 200ms

#### Electrical data

Operating voltage U<sub>B</sub> 10 ... 30VDC (incl. residual ripple)  
 Residual ripple ≤ 15% of U<sub>B</sub>  
 Bias current ≤ 40mA  
 Switching output PNP transistor  
 Function characteristics light/dark switching (reversible)  
 Signal voltage high/low ≥ (U<sub>B</sub>-2V)/≤ 2V  
 Output current max. 100mA  
 Sensitivity adjustable with 10-turn potentiometer

#### Indicators

LED green ready  
 LED yellow **clear glass** - adjustment range 1  
 transition from quickly flashing to slowly flashing  
**coloured glass** - adjustment range 2  
 transition from cont. illuminated to quickly flashing  
**other** - adjustment range 3  
 continuously illuminated

#### Mechanical data

Housing diecast zinc  
 Optics cover glass  
 Weight 380g  
 Connection type terminals or M12 connector

#### Environmental data

Ambient temp. (operation/storage) -20°C ... +55°C/-40°C ... +55°C  
 Protective circuit <sup>3)</sup> 1, 2, 3, 4  
 VDE safety class <sup>4)</sup> II, all-insulated  
 Protection class IP 67, IP 69K <sup>5)</sup>  
 LED class 1 (acc. to EN 60825-1)  
 Standards applied IEC 60947-5-2

- 1) Typ. operating range limit: max. attainable range without performance reserve
- 2) Operating range: recommended range with performance reserve
- 3) 1=transient protection, 2=polarity reversal protection, 3=short circuit protection for all outputs, 4=interference blanking
- 4) Rating voltage 250VAC
- 5) IP 69K test acc. to DIN 40050 part 9 simulated, high pressure cleaning conditions without the use of additives, acids and bases are not part of the test

### Order guide

|                    | Designation       | Part No.  |
|--------------------|-------------------|-----------|
| With terminals     | PRK 96M/P-1838-21 | 500 29880 |
| With M12 connector | PRK 96M/P-1838-41 | 500 80760 |

### Tables

| Reflectors       | Operating range |
|------------------|-----------------|
| 1 TK(S) 100x100  | 0 ... 7m        |
| 2 MTK(S) 50x50   | 0 ... 6m        |
| 3 TK(S) 30x50    | 0 ... 4m        |
| 4 TK(S) 20x40    | 0 ... 3.5m      |
| 5 TK(S) 82       | 0 ... 5m        |
| 6 Tape 2 100x100 | 0 ... 3m        |

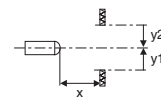
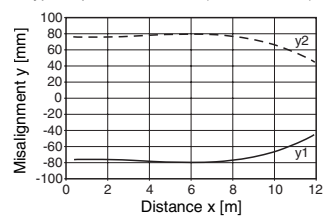
|   |     |     |     |
|---|-----|-----|-----|
| 1 | 0.1 | 7   | 8.5 |
| 2 | 0.1 | 6   | 7.5 |
| 3 | 0.1 | 4   | 5   |
| 4 | 0.1 | 3.5 | 4   |
| 5 | 0.1 | 5   | 6   |
| 6 | 0.1 | 3   | 3.5 |

Operating range [m]  
 Typ. operating range limit [m]

TK ... = adhesive  
 TKS ... = screw type  
 Tape 2 = adhesive

### Diagrams

Typ. response behaviour (TKS 100x100)



### Remarks

| Objects               | Adjustment (indicator LED yellow) |
|-----------------------|-----------------------------------|
| Clear glass, PE, foil | Range 1<br>Operating pt. 1<br>    |
| Coloured glass        | Range 2<br>Operating pt. 2<br>    |
| Other                 | Range 3<br>                       |