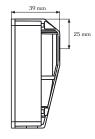
# RP 25 reflective photo-electric switch

- range 0.5...15m, depending on the type of reflector
- immune to external light sources
- high degree of protection
- optional cable entry
- terminal compartment
- polarisation filter optical system
- test input
- operating voltage 10-40VDC or 24VAC ±25%
- protected against power supply polarity reversal
- relay output
- easy adjustment of the optical sensor
- dirt indicator
- LED alignment indication





#### Declaration of conformity

EMC directive 2014/30/EU EN 61000-6-2 and EN 61000-6-3



#### Technical data

R30/60 = 0.5...8moperating voltage 10...40VDC ranges RD82 SW4 = 0.5...12m24VAC. ± 25% operational <100ms after power on R100/100 = 0.5...15mdual LED red/green current consumption max. 30mA/24V indications type of light red, 680nm light beam interrupted = lights up red light beam uninterrupted, spare critical function capacity. pulsed, polarised approx. 1.5° total angle = flashes red at 4Hz aperture angle relay, changeover contact light beam uninterrupted, high spare function capacity. output min. 1mA/min. 5VDC = lights up green switch rating max. 0.6A/50VAC additional function test input max. 0.5A/48VDC (when 0V at terminal 1 the (resistive load) transmitter switches off) response time <10ms, detection of light type of connection screw terminal max. 1.5mm<sup>2</sup> lower part: ABS-GF15% beam interruption casing material when the light beam is upper part: PMMA, red relay delay degree of protection IP65, to EN60529 uninterrupted again, the relay picks up with 100ms delay operating temp. -25°...60°C type of switching responsive to brightness, i.e. storage temp. -35°...80°C the relay picks up when the approx. 60g weight 86x44x39mm3 (LxWxH) light beam is uninterrupted size

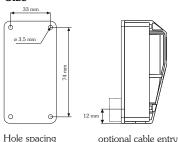
### **Terminal assignments**

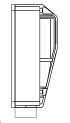




Note: For test purposes the photo-electric switch switches the transmitter off when GND is applied to terminal 1. For reasons of safety the photo-electric switch is responsive to brightness, so that the relav picks up when the light beam is uninterrupted.

#### Size







Rubber grommet

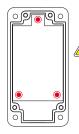
Cable gland

M12x1.5

Note:

The cable entry is moulded into the lower part of the casing and can be broken out. Either the rubber grommet or the cable gland (both supplied) can be used.

# Fine adjustment



After mounting the photo-switch the light beam can be adjusted using 3 screws.

## Important note!

The optical sensor is spring-mounted. All 3 screws are unscrewed by 1 turn factory-made, the maximum is 3 turns. The optical sensor is optimally aligned when the green LED lights up constantly.



LED lights up: 100 % of the cone of light is hitting the reflector



LED flashing: Less than 100 % of the cone of light is hitting the reflector

#### Accessories



HW-LS mounting bracket for the reflektive photo-electric switch Material: bright 1,5 1.4301 (V2A)

Ordering details 314847 HW-LS

WSH-RD82 rain cover

for the reflector RD82-SW4

impact resistant, UV-stable

material: PA6 GF15

WSH-RD82 315316

Ordering details



HW-RD82 mounting bracket

for the RD82-SW4 reflector Material: bright 1,5 1.4301 (V2A) Ordering details HW-RD82 314848



RD82 SW4 reflector

Mounting: screwable approx. 12m with Range RP20 Ordering details

RD82 SW4 314811



WSH-LS rain cover for the reflective photo-electric switch RP20/RP25 protection against rain, hail and snow impact resistant, UV-stable

PA6 GF15 Ordering details WSH-LS 315315



R30/60 reflector Mounting: screwable approx. 8m with RP20

Ordering details R30/60 314810



Anti-condensation cover for RD82 SW4 reflector ISO RD82 Material: Polusturene or Neonor

Ordering details ISO-RD82 314849



Anti-condensation cover for R30/60 reflector ISO R30/60 Material: Polystyrene or Neopor Ordering details ISO-R30/60 314850

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