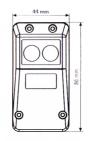
RP 25 reflective photo-electric switch

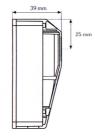


- immune to external light sources
- high degree of protection
- optional cable entry
- terminal compartment
- polarisation filter optical system
- test input
- operating voltage 10-40VDC or 24VAC ±25%
- protected against power supply polarity reversal

10...40VDC

- relay output
- · easy adjustment of the optical sensor
- dirt indicator
- LED alignment indication

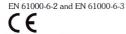




= 0.5...8m

Declaration of conformity EMC directive 2014/30/EU

R30/60



Technical data operating voltage

	24VAC, ± 25%		RD82 SW4 = 0,512m
operational	<100ms after power on		R100/100 = 0,515m
current consumption	max. 30mA/24V	indications	dual LED red/green
type of light	red, 680nm	light beam interrupted	= lights up red
	pulsed, polarised	light beam uninterrupte	ed, spare critical function capacity.
aperture angle	approx. 1.5° total angle		= flashes red at 4Hz
output	relay, changeover contact	light beam uninterrupted, high spare function capacity.	
switch rating	min. 1mA/min. 5VDC		= lights up green
	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 ²
	beam interruption	casing material	lower part: ABS-GF15%
relay delay	when the light beam is		upper part: PMMA, red
	uninterrupted again, the relay	degree of protection	IP67, to EN60529
	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	weight	approx. 60g
	light beam is uninterrupted	size	86x44x39mm³ (LxWxH)

ranges

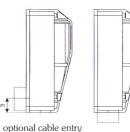
Terminal assignments



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 relay picks up when the light beam is uninterrupted.

Size







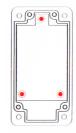




Note:

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

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 HWJS 314847



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



RD82 SW4 reflector screwable Mounting: Range: RP20

Ordering details RD82 SW4 314811



WSH-RD82 rain cover

for the reflector RD82-SW4 protection against rain, hail and snow impact resistant, UV-stable material: PA6 GF15

Ordering details WSH-RD82 315316



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

Anti-condensation cover



R30/60 reflector

screwable Mounting: approx. 8m with



Anti-condensation cover for RD82 SW4 reflector ISO RD82 Material: Polusturene or Neono Ordering details ISO_RD82 314849



ISO R30/60 Material: Polusturene or Neono Ordering details ISO_R30/60 314850





