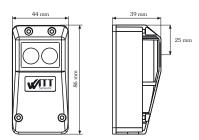
RP 25 reflective photo-electric switch



- 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

Technical data

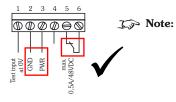
operating voltage	1040VDC	1
	24VAC, ± 25%	
operational	<100ms after power on	
current consumption	max. 30mA/24V	į
type of light	red, 680nm]
	pulsed, polarised]
aperture angle	approx. 1.5° total angle	
output	relay, changeover contact	l
switch rating	min. 1mA/min. 5VDC	
	max. 0.6A/50VAC	i
	max. 0.5A/48VDC	
	(resistive load)	
response time	<10ms, detection of light	t
	beam interruption	(
relay delay	when the light beam is	
	uninterrupted again, the relay	(
	picks up with 100ms delay	(
type of switching	responsive to brightness, i.e.	:
	the relay picks up when the	1
	light beam is uninterrupted	:



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

ranges	R30/60 = 0,58m RD82 SW4 = 0,512m R100/100 = 0,515m	
indications	dual LED red/green	
light beam interrupted	= lights up red	
light beam uninterrupted, spare critical function capacity.		
	= flashes red at 4Hz	
light beam uninterrupted, high spare function capacity.		
	= lights up green	
additional function	test input	
	(when 0V at terminal 1 the	
	transmitter switches off)	
type of connection	screw terminal max. 1.5mm ²	
casing material	lower part: ABS-GF15%	
	upper part: PMMA, red	
degree of protection	IP65, to EN60529	
operating temp.	-25°60°C	
storage temp.	-35°80°C	
weight	approx. 60g	
size	86x44x39mm ³ (LxWxH)	

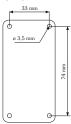
Terminal assignments

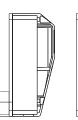


For test purposes the photo-electric switch switches the transmitter off when GND is applied to terminal 1. For reasons of safety the photo-electric switch is responsive to brightness, so that the relay picks up when the light beam is uninterrupted.



Size







Rubber grommet or Cable gland M12x1 5

J.s.

Note:

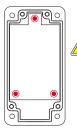
The cable entry is moulded into the lower part of the casing and can be broken out. Either the rubber grommet or the cable gland (both supplied) can be used.

Hole spacing

optional cable entry

Fine adjustment

12 m



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 HW-LS 314847



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



Anti-condensation cover for RD82 SW4 reflector **ISO RD82** Material: Polystyrene or Neopor **Ordering details**

ISO-RD82 314849





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 Range: approx. 12m with RP20

Ordering details RD82 SW4 314811

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

Ordering details R30/60 314810



Ordering details WSH-LS 315315



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

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