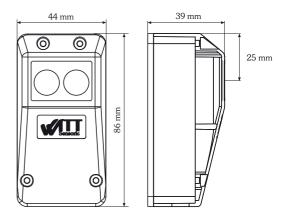
RP25 reflective photo-electric switch



RP25 reflective photo-electric switch

- reflective photo-electric switch with polarisation filter
- 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
- soiling indication
- LED alignment indication



Declaration of conformity

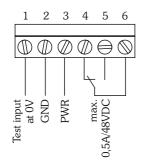
EMC directive 89/336/EEC EN 61000-6-2 and EN 61000-6-4



Technical data

Operating voltage	1040VDC	Ranges	RD82 SW4	0.512m	
O 1	24VAC, ± 25%		R100/100	0.515m	
Operational	<100ms after power on		R30/60	0.58m	
Current consumption max. 30mA/24V		Indications	Dual LED red/green		
Type of light	red, 680nm	Light beam interrupte	ed = lights up red		
	pulsed, polarised	Light beam uninterrup	ght beam uninterrupted, spare critical function capacity.		
Aperture	approx. 1.5° total angle		= flashes red	d 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 s	witches off)	
Response time	<10ms, detection of light	Type of connection	Screw termin	nal max. 1.5mm²	
	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	IP 67, to EN	60529	
	picks up with 100ms delay	Operating temperature -25°60°C			
Type of switching	Responsive to brightness, i.e.	Storage temperature	-35°80°C		
_	The relay picks up when the	Weight	approx. 60g		
	light beam is uninterrupted	Size	86x44x39m	m ³ (LxWxH)	

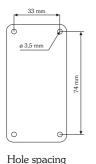
Terminal assignments

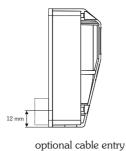


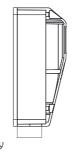
Jan Note:

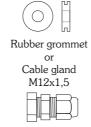
For test purposes the photo-electric switch switches the transmitter off when GND is applied to terminal 1. For reasons of safety the photo-electric switch is responsive to brightness, so that the relay picks up when the light beam is uninterrupted.













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

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

HW-LS20 mounting bracket



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

Ordering details

HW-LS20 1.113 870



HW-RD82 mounting bracket

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

Ordering details

HW-RD82 1.113 871



Anti-condensation cover for RD82 SW4 reflector

ISO RD82

Material: Polystyrene or Neopor, silver-grey

Ordering details

ISO-RD82 1.113 873



Anti-condensation cover for R30/60 reflector

ISO R30/60

Material: Polystyrene or Neopor, silver-grey

Ordering details

ISO-R30/60 1.113 874



RD82 SW4 reflector

Mounting: screwable

approx. 12m with RP20 Range:

Ordering details

RD82 SW4 1.113 812



R30/60 reflector

Mounting: screwable

approx. 8m with RP20 Range:

Ordering details

R30/60 1.113 811

Ordering details

RP25 (only) 1.114 100

Included in the scope of supply: cable gland M12x1,5 and pass-through grommet

RP25 set 1.114 105

Included in the scope of supply RD82 SW4 reflector, cable gland M12x1.5 and pass-through grommet