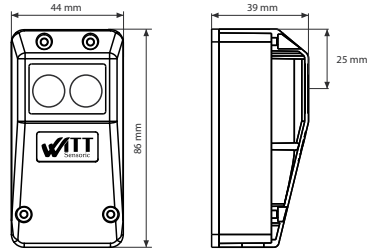
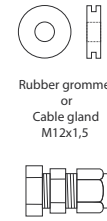
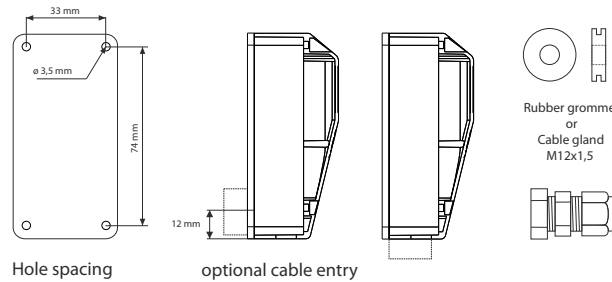


PLUG-IN REFLECTIVE SENSOR

- 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



Size



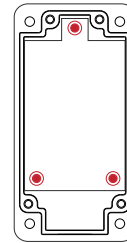
Note:

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.

Technical data

operating voltage	10...40VDC 24V AC, ± 25%	ranges	R30/60 = 0,5...8m RD82 SW4 = 0,5...12m R100/100 = 0,5...15m
operational current consumption	<100ms after power on max. 30mA/24V	indications	dual LED red/green
type of light	red, 680nm pulsed, polarised	light beam interrupted	= lights up red
aperture angle	appro x. 1.5° total angle	light beam uninterrupted, spare critical function capacity.	= flashes red at 4Hz
output	relay, changeover contact	light beam uninterrupted, high spare function capacity.	= lights up green
switch rating	min. 1mA/min. 5VDC max. 0.6A/50V AC max. 0.5A/48VDC (resistive load)	additional function	test input (when 0V at terminal 1 the transmitter switches off)
response time	<10ms, detection of light beam interruption	type of connection	screw terminal max. 1.5mm ²
relay delay	when the light beam is interrupted again, the relay picks up with 100ms delay	casing material	lower part: ABS-GF15% upper part: PMMA, red
type of switching	responsive to brightness, i.e. the relay picks up when the light beam is uninterrupted	degree of protection	IP67, to EN60529
		operating temp.	-25°...80°C
		storage temp.	-35°...80°C
		weight	appro x. 60g
		size	86x44x39mm ³ (LxWxH)

Fine adjustment

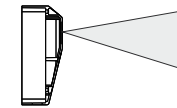


After mounting the Sensor the light beam can be adjusted using 3 screws.

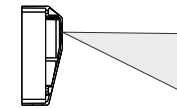


Important note!

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.

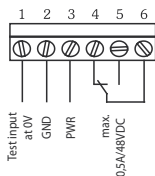


LED lights up:
100 % of the cone of light is hitting the reflector



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

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.

Parts



Mounting bracket



Rain cover



Reflector



Plug 'n' Go Cable

AAC-PHR10 AAC-PHR15

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