



Photoelectric sensors W45, Photoelectric proximity sensor, Background suppression

WT45-R200S04



Model Name > [WT45-R200S04](#)
Part No. > [1015317](#)



Illustration may differ

At a glance

- Long background suppression sensing range
- Rugged metal housing
- Optional: Powerful front lens heating
- Optional test input and time delays
- Variants for 10 - 60 V DC or 24 - 240 V DC / 24 - 240 V AC voltage supply
- IR emitter

Your benefits

- Very large sensing distance
- Rugged metal housing ensures a long service life in harsh industrial environments
- Front lens heating prevents condensation for reliable operation in outdoor applications.
- Multiple functions for simpler integration of individual systems
- Variants DC voltage and universal AC/DC voltage provides installation flexibility due to same housing



Features

Sensor/detection principle:	Photoelectric proximity sensor, Background suppression
Dimensions (W x H x D):	60 mm x 105 mm x 105 mm
Housing design (light emission):	Rectangular
Sensing range max.:	200 mm ... 1,000 mm ¹⁾
Sensing range:	200 mm ... 1,000 mm
Type of light:	Visible red light
Light source:	LED ²⁾
Adjustment:	Potentiometer
Light spot size (distance):	Ø 35 mm (1,000 mm)

¹⁾ Object with 90 % reflectance (referred to standard white DIN 5033) ²⁾ Average service life of 100,000 h at T_A = +25 °C

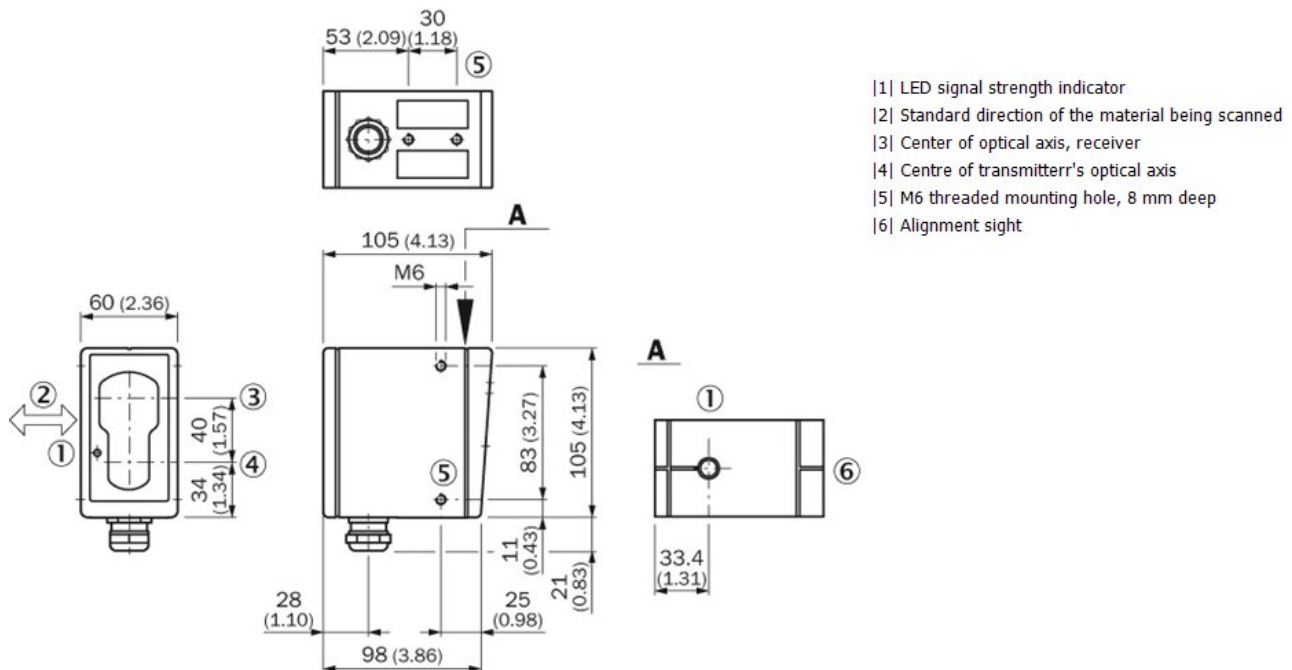
Mechanics/electronics

Supply voltage:	24 V AC/DC ... 240 V AC/DC ¹⁾
Power consumption:	≤ 3 VA
Output type:	Relay ²⁾
Output function:	Change-over contacts
Output characteristic:	Electrically isolated
Switching current (switching voltage):	4 A (24 V DC), 4 A (240 V AC)

Response time:	≤ 20 ms
Switching frequency:	10 Hz ³⁾
Connection type:	Terminal connection with PG13,5, 6-pin
Circuit protection::	A, C ^{4) 5)}
Protection class:	I
Weight:	800 g
Front screen heating:	-
Special device:	✓
Housing material:	Metal
Enclosure rating:	IP 67
Items supplied:	Cooling plate BEF-KP-W 45 and special protection hood OBS-W45-H not included in scope of delivery
Special features:	For the detection of hot objects with surface temperatures of > 800 °C
Usage category:	AC-15, DC-13, According to EN 60947-1
Ambient operating temperature:	-25 °C ... 55 °C ⁶⁾
Ambient storage temperature:	-40 °C ... 70 °C
UL File No.:	NRKH.E181493 & NRKH7.E181493

1) +10 %, -25% 2) Provide suitable spark supression for inductive or capacitive loads 3) With light/dark ratio 1:1 4) A = V_S connections reverse-polarity protected 5) C = interference suppression 6) Up to 120 °C with cooling plates BEF-KP-W 45

Dimensional drawing



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