



Photoelectric sensors W45, Photoelectric proximity sensor, Background suppression

WT45-P200S03



Model Name > **WT45-P200S03**
Part No. > **1015316**



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

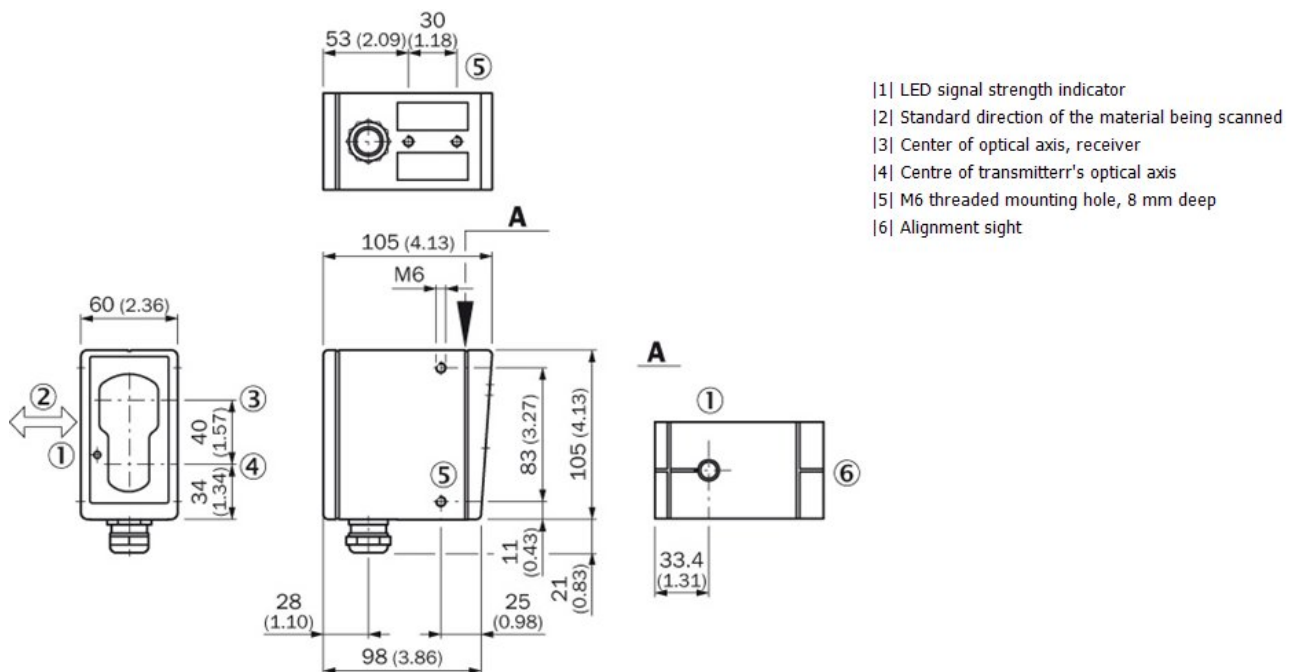
Mechanics/electronics

Supply voltage:	10 V DC ... 60 V DC ¹⁾
Ripple:	≤ 5 Vpp ²⁾
Power consumption:	≤ 50 mA ³⁾
Output type:	PNP
Output function:	Complementary
Switching mode:	Light/dark-switching

Output current I _{max} ..:	200 mA
Response time:	≤ 6 ms ⁴⁾
Switching frequency:	50 Hz ⁵⁾
Connection type:	Terminal connection with PG13,5, 6-pin
Circuit protection:::	A, C, D ⁶⁾ 7) 8)
Protection class:	I ⁹⁾
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
Test input sender off:	TE to 0 V
Ambient operating temperature:	-25 °C ... 55 °C ¹⁰⁾
Ambient storage temperature:	-40 °C ... 70 °C
UL File No.:	NRKH.E181493 & NRKH7.E181493

1) Limit values 2) May not exceed or fall short of V_S tolerances 3) Without load 4) Signal transit time with resistive load 5) With light/dark ratio 1:1 6) A = V_S 7) C = interference suppression 8) D = outputs overcurrent and short-circuit protected 9) Reference voltage 50 V DC 10) Up to 120 °C with cooling plates BEF-KP-W 45

Dimensional drawing



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