

WT24-2R210S11 W24

COMPACT PHOTOELECTRIC SENSORS





Ordering information

Туре	Part no.
WT24-2R210S11	1019359

Other models and accessories → www.sick.com/W24

Illustration may differ



Detailed technical data

Features

Functional principle	Photoelectric proximity sensor
Functional principle detail	Background suppression
Dimensions (W x H x D)	27 mm x 87.5 mm x 65 mm
Housing design (light emission)	Rectangular
Sensing range max.	100 mm 2,000 mm ¹⁾
Sensing range	1,200 mm 1,600 mm ¹⁾
Type of light	Infrared light
Light source	LED ²⁾
Light spot size (distance)	Ø 80 mm (2,500 mm)
Adjustment	Potentiometer
Special features	Very resistant against shock and vibration The sensing range can only be set between approx. 1,200 and 1,600 mm

 $^{^{1)}}$ Object with 90% remission (based on standard white, DIN 5033).

Mechanics/electronics

Supply voltage U _B	20 V AC/DC 250 V AC/DC
Power consumption	< 2 VA
Switching output	Relay, electrically isolated ¹⁾
Output function	Change-over contacts

¹⁾ Provide suitable spark suppression for inductive or capacitive loads.

²⁾ Average service life: 100,000 h at $T_U = +25$ °C.

²⁾ With light/dark ratio 1:1.

 $^{^{3)}}$ A = V_S connections reverse-polarity protected.

⁴⁾ C = interference suppression.

⁵⁾ Rated voltage: 250 V AC/DC.

Light/dark switching ¹⁾	
Selectable via light/dark selector	
4 A @ 250 V AC, 4 A @ 24 V DC, 0.125 A @ 250 V DC UL: 4 A @ 250 V AC, general use / 4 A @ 250 V AC, resistive (NO) / 3 A @ 250 V AC, resistive (NC) / 4 A @ 24 V DC, NO, general use / 3 A @ 24 V DC, NC, general use / R300 / B300 (NO contacts only)	
≤ 10 ms	
10 Hz ²⁾	
Terminal connection with M16 gland	
A ³⁾ C ⁴⁾	
II ⁵⁾	
330 g	
✓	
Metal, zinc diecast	
Plastic, PMMA	
IP67	
-40 °C +60 °C	
-40 °C +75 °C	

 $^{^{1)}}$ Provide suitable spark suppression for inductive or capacitive loads. $^{2)}$ With light/dark ratio 1:1.

Classifications

ECLASS 5.0	27270904
ECLASS 5.1.4	27270904
ECLASS 6.0	27270904
ECLASS 6.2	27270904
ECLASS 7.0	27270904
ECLASS 8.0	27270904
ECLASS 8.1	27270904
ECLASS 9.0	27270904
ECLASS 10.0	27270904
ECLASS 11.0	27270904
ECLASS 12.0	27270904
ETIM 5.0	EC002719
ETIM 6.0	EC002719
ETIM 7.0	EC002719
ETIM 8.0	EC002719
UNSPSC 16.0901	39121528

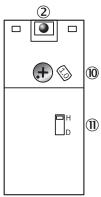
 $^{^{3)}}$ A = V_S connections reverse-polarity protected.

⁴⁾ C = interference suppression.

⁵⁾ Rated voltage: 250 V AC/DC.

Adjustments

WT24-2, WL24-2, WS/WE24-2, AC/DC



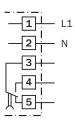
- ② LED signal strength indicator
- Adjustment sensing range (WT) / sensitivity (WL, WS/WE)
 Light/dark selector

Connection type



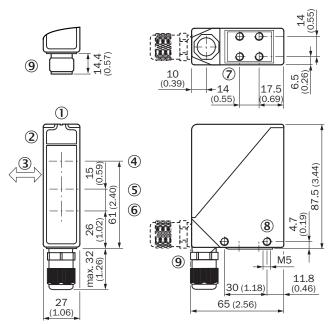
Connection diagram

Cd-167



Dimensional drawing (Dimensions in mm (inch))

WT24-2



- ① Alignment sight
- ② LED signal strength indicator
- 3 Standard direction of the material being detected
- 4 Center of optical axis, sender
- © Center of optical axis, receiver (close range)
- © Center of optical axis, receiver (far range)
- M5 threaded mounting hole, 6 mm deep
- ® M5 threaded mounting hole, through-hole

Recommended accessories

Other models and accessories → www.sick.com/W24

	Brief description	Туре	Part no.
Mounting brackets and plates			
	Mounting bracket, large, stainless steel, without mounting hardware for the sensor	BEF-WG-W24	4026324

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