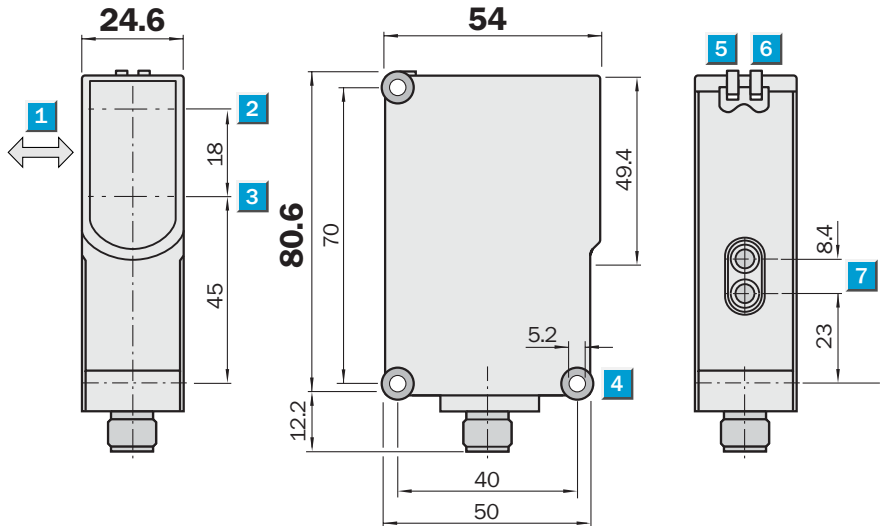


Scanning distance
30 ... 2,200 mm

Photoelectric proximity switch

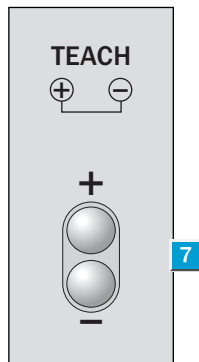
- Infrared light, extra long scanning distance
- Reliable in industrial environments; secure against the effects of ambient light, unwanted optical reflections, other sensors mounted adjacently and temperatures from -40°C ... +60°C

Dimensional drawing



Adjustments possible

WTB27-3P2413S09

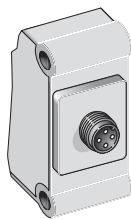


- 1 Standard direction of the material being scanned
- 2 Optical axis sender
- 3 Optical axis receiver
- 4 Mounting hole Ø 5.2 mm
- 5 LED indicator green; power on
- 6 LED indicator yellow; status of received light beam
- 7 Adjustment of scanning distance: Double teach button

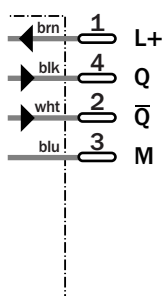


Connection type

WTB27-3P2413S09



M12, 4-pin



Accessories

- Connector, M12, 4-pin
- Mounting systems
- Weather protection

Technical specifications		WTB27-3	P2413 S09										
Scanning distance typ. max.	30 ... 2,200 mm ¹⁾												
Operating distance	100 ... 2,200 mm ¹⁾												
Adjustment of operating distance	Teach-in: double teach button												
Light source, light type	LED, Infrared light, 880 nm ²⁾												
Light spot diameter	Approx. 25 mm at 800 mm distance												
Supply voltage V_s	DC 10 ... 30 V ³⁾												
Ripple	≤ 5 Vss ⁴⁾												
Power consumption	≤ 40 mA ⁵⁾												
Switching outputs	PNP antivalent												
Signal voltage PNP HIGH / LOW	> V _s - 2.5 V / approx. 0 V												
Output current I _a max	100 mA												
Response time	≤ 2.5 ms ⁶⁾												
Switching frequency	200 Hz ⁷⁾												
Connection type	Connector, M12, 4-pin												
VDE protection class	□ ⁸⁾												
Circuit protection	Vs connections reverse-polarity protected / All outputs short-circuit protected / Interference suppression												
Enclosure rating	IP 66, IP 67												
Ambient temperature operation	-40 °C ... +60 °C												
Ambient temperature storage	-40 °C ... +75 °C												
Weight	Ca. 100 g												
Housing material	ABS, PMMA												

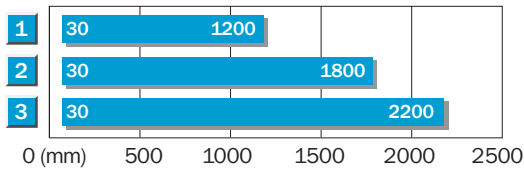
¹⁾ Object with 90% remission (based on standard white to DIN 5033)
²⁾ Average service life 100,000 h

at T_a = +25 °C
³⁾ Limit values, operation in short-circuit protected network max. 8 A

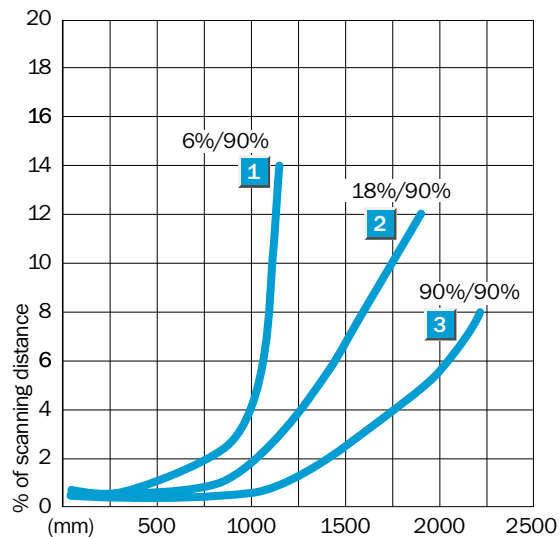
⁴⁾ May not exceed or fall short of V_s tolerances
⁵⁾ Without load

⁶⁾ Signal transit time with resistive load
⁷⁾ With light/dark ratio 1:1
⁸⁾ Reference voltage 50 V DC

Scanning distance



- 1 Scanning distance on black, 6 % remission
- 2 Scanning distance on grey, 18 % remission
- 3 Scanning distance on white, 90 % remission



Ordering information	
Type	Order No.
WTB27-3P2413S09	1 029 563