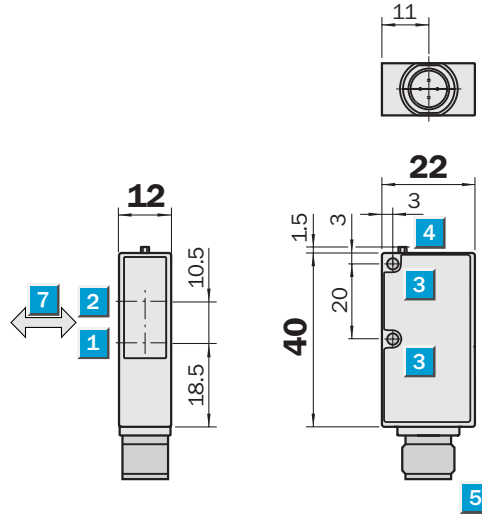


WT 9-2 P620 BGB

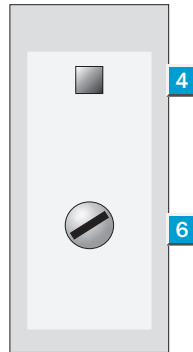
Photoelectric Proximity Switch

Dimension illustration



Setting options

WT 9-2P620



- 1 Axis of the receiver optics
- 2 Axis of the sender optics
- 3 Mounting hole \varnothing 3.2 mm
- 4 LED signal strength indicator
- 5 120 mm cable with plug M 12, 4-pin
- 6 Scanning distance adjuster
- 7 Standard direction of the material to be scanned

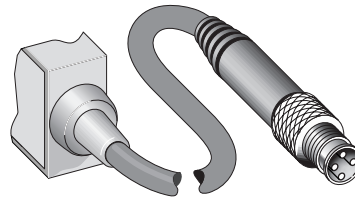
Scanning distance
30 ... 500 mm

Photoelectric proximity switch

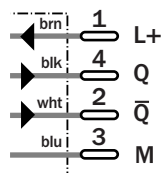
- Emitter LED IR
- Background blanking
- Switching frequency 1500/s
- Outputs short-circuit protected
- 120 mm cable with plug M 12, 4-pin
- Scanning distance adjustable

Connection type

WT 9-2P620



4-pin, M 12 with 120 mm cable



WT 9-2P620 Photoelectric Proximity Switch with Background Blanking

Technical data		WT 9-2	P620									
Scanning distance, adjustable ⁴⁾	30 ... 500 mm											
Supply voltage V_S ²⁾	10 ... 30 V DC											
Ripple ³⁾	$\leq 5 V_{pp}$											
Current consumption ⁴⁾	$\leq 30 \text{ mA}$											
Light source ⁵⁾	LED, infrared											
Light spot diameter	15 x 15 mm at a distance of 200 mm											
Switching outputs	PNP, Q und \bar{Q}											
Signal voltage HIGH	$V_S - 2.9 \text{ V}$											
Signal voltage LOW ⁶⁾	Approx. 0 V											
Output current I_A max.	$\leq 100 \text{ mA}$											
Response time ⁷⁾	$\leq 333 \mu\text{s}$											
Switching frequency max. ⁸⁾	1500/s											
Connection technology	Cable, 120 mm, with plug M 12, 4-pin											
VDE protection class ⁹⁾	<input type="checkbox"/>											
Protection type	IP 67											
Protection circuits ¹⁰⁾	A, B, C											
Ambient temperature ¹¹⁾	Operation $-40 \dots +60 \text{ }^\circ\text{C}$ Storage $-40 \dots +75 \text{ }^\circ\text{C}$											
Weight with cable 120 mm	Approx. 80 g											
Housing material	ABS											

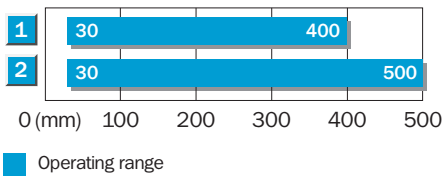
1) Object with 18% reflectance (referred to standard white DIN 5033)
 2) Limit values
 3) Must be within V_S tolerances
 4) Without load

5) Average service life temperature 100,000 h at $T_U = +25 \text{ }^\circ\text{C}$
 6) At $T_U = +25 \text{ }^\circ\text{C}$ and 100 mA output current

7) With resistive load
 8) With light/dark ratio 1:1
 9) Withstand voltage 50 V

10) A = Supply connections reverse polarity protected
 B = Outputs short-circuit protected
 C = Interference suppression
 11) Do not distort cable below $0 \text{ }^\circ\text{C}$

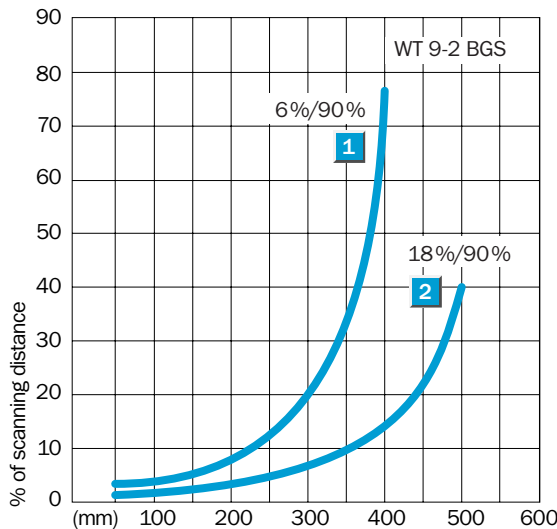
Scanning distance



- 1 Scanning range on black, 6% reflectance
- 2 Scanning range on gray, 18% reflectance

Ordering information

Type	Order no.
WT 9-2P620	1 019 711



Great Britain

Erwin Sick Ltd.
 Waldkirch House
 39 Hedley Road, St. Albans
 Hertfordshire AL 1 5BN
 ☎ +44 17 27-83 11 21
 Fax +44 17 27-85 67 67
 erwin@sick.co.uk

USA

SICK, Inc.
 6900 West 110th Street
 Bloomington, MN 55438
 ☎ +1 (952) 9 41-67 80
 Fax +1 (952) 9 41-92 87
 WATS: 1-800-325-7425
 info@sickoptical.com

Australia

Erwin Sick Optic-Electronic
 Pty. Ltd. Head Office, P.O. Box 214
 899 Heidelberg Road
 Ivanhoe, Vic. 3079, Australia
 ☎ +61 39 49 74 10 0
 (0 08) 33 48 02 - toll free
 Fax +61 39 49 71 18 7
 sick@werple.net.au

