



WTB26P-39722122ZZZ
W26

COMPACT PHOTOELECTRIC SENSORS

SICK
Sensor Intelligence.



Illustration may differ



Ordering information

Type	Part no.
WTB26P-39722122ZZZ	1222809

Other models and accessories → www.sick.com/W26

Detailed technical data

Features

Sensor/ detection principle	Photoelectric proximity sensor, Background suppression
Dimensions (W x H x D)	24.6 mm x 82.5 mm x 53.3 mm
Housing design (light emission)	Rectangular
Sensing range max.	30 mm ... 1,600 mm ¹⁾
Type of light	Visible red light
Light source	PinPoint LED ²⁾
Light spot size (distance)	Ø 7 mm (700 mm)
Wave length	635 nm
Adjustment	
Teach-Turn adjustment 1	BluePilot: for setting the sensing range
Teach-Turn adjustment 2	BluePilot: for configuring the time function
Wire/pin	For activating the test input
Indication	
LED indicator blue 1	BluePilot: sensing range indicator
LED indicator blue 2	BluePilot: Time function display
LED indicator green	Operating indicator Static: power on
LED indicator yellow	Status of received light beam

¹⁾ Object with 90 % reflectance (referred to standard white, DIN 5033).

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

	Static on: object present Static off: object not present
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1) Object with 90 % reflectance (referred to standard white, DIN 5033).

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

Mechanics/electronics

Supply voltage	10 V DC ... 30 V DC ¹⁾
Ripple	$\leq 5\text{ V}_{pp}$
Current consumption	30 mA ²⁾ 50 mA ³⁾
Power consumption, sender	3)
Power consumption, receiver	3)
Switching output	Push-pull: PNP/NPN PNP NPN
Output function	Factory setting: Pin 5 / white: NPN normally closed (dark switching), PNP normally open (light switching), pin 6 / gray: Test input acc to. U_B , Pin 4 / black: NPN normally open (light switching), PNP normally closed (dark switching)
Switching mode	Dark/light switching
Signal voltage PNP HIGH/LOW	Approx. $V_S - 2.5\text{ V} / 0\text{ V}$
Signal voltage NPN HIGH/LOW	Approx. $V_S / < 2.5\text{ V}$
Output current I_{max}	$\leq 100\text{ mA}$
Response time	$\leq 500\text{ }\mu\text{s}$ ⁴⁾
Switching frequency	1,000 Hz ⁵⁾
Time functions	Deactivated (factory setting) On delay Off delay ON and OFF delay Impulse (one shot)
Delay time	Teach-turn adjustment, 0 ms ... 30,000 ms, 0 ms (factory setting)
Connection type	Cable with connector Q6, 6-pin, DC-coding, 270 mm ⁶⁾
Cable material	PVC
Circuit protection	A ⁷⁾ B ⁸⁾ C ⁹⁾ D ¹⁰⁾
Protection class	III
Weight	100 g

1) Limit values.

2) 16 V DC ... 30 V DC, without load.

3) 10 V DC ... 16 V DC, without load.

4) Signal transit time with resistive load in switching mode.

5) With light/dark ratio 1:1 in switching mode.

6) Do not bend below 0 °C.

7) A = V_S connections reverse-polarity protected.

8) B = inputs and output reverse-polarity protected.

9) C = interference suppression.

10) D = outputs overcurrent and short-circuit protected.

Polarisation filter	✓
Housing material	Plastic, VISTAL®
Optics material	Plastic, PMMA
Enclosure rating	IP65 (According to EN 60529)
Test input sender off	Test at U _B
Ambient operating temperature	-40 °C ... +60 °C
Ambient storage temperature	-40 °C ... +75 °C
UL File No.	NRKH.E181493 & NRKH7.E181493

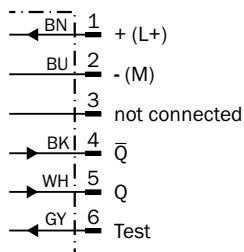
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8) B = inputs and output reverse-polarity protected.
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Classifications

ECl@ss 5.0	27270904
ECl@ss 5.1.4	27270904
ECl@ss 6.0	27270904
ECl@ss 6.2	27270904
ECl@ss 7.0	27270904
ECl@ss 8.0	27270904
ECl@ss 8.1	27270904
ECl@ss 9.0	27270904
ECl@ss 10.0	27270904
ECl@ss 11.0	27270904
ETIM 5.0	EC002719
ETIM 6.0	EC002719
ETIM 7.0	EC002719
UNSPSC 16.0901	39121528

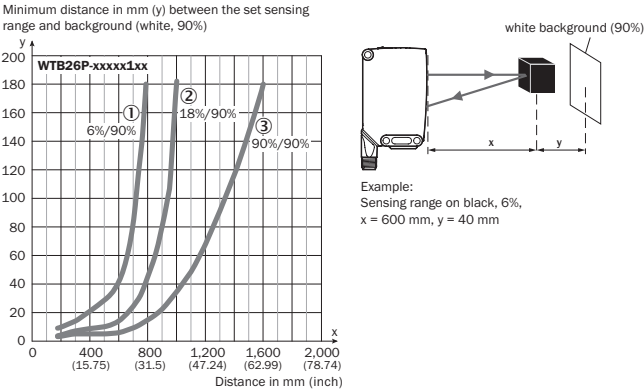
Connection diagram

Cd-427



Characteristic curve

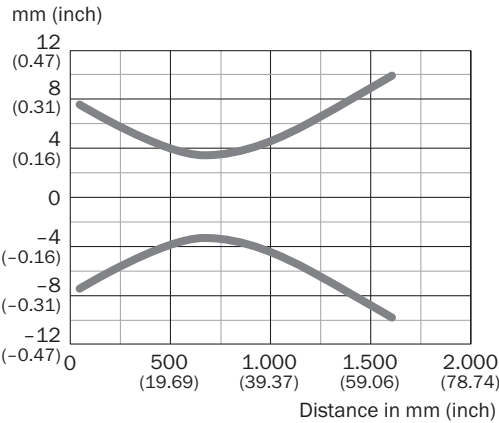
WTB26P-xxxxx1xx



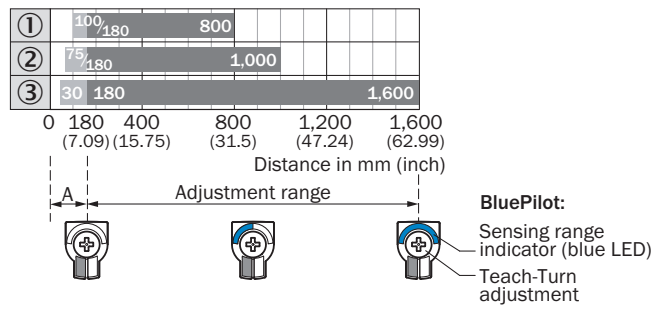
- ① Sensing range on black, 6% remission
- ② Sensing range on gray, 18 % remission
- ③ Sensing range on white, 90% remission

Light spot size

WTB26P-xxxxx1xx



Sensing range diagram

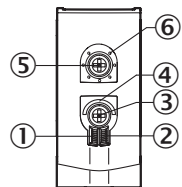


A = Detection distance (depending on object remission)

- ① Sensing range on black, 6% remission
- ② Sensing range on gray, 18 % remission
- ③ Sensing range on white, 90% remission

Adjustments

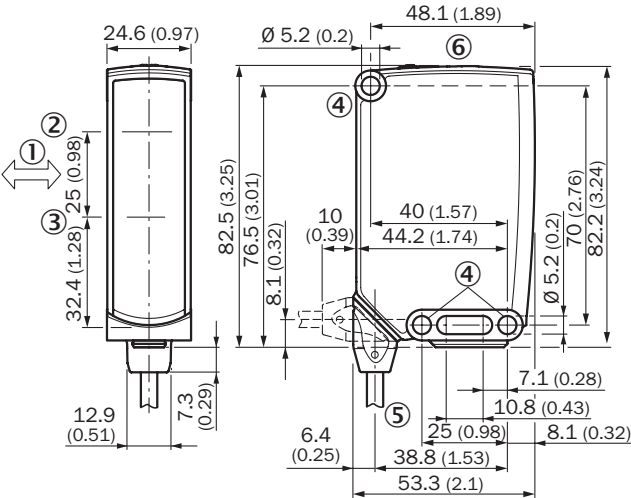
Display and adjustment elements



- ① LED indicator green
- ② LED indicator yellow
- ③ Teach-Turn adjustment 1
- ④ LED indicator blue 1
- ⑤ Teach-Turn adjustment 2
- ⑥ LED indicator blue 2

Dimensional drawing (Dimensions in mm (inch))

WTB26, WTL26, cable



- ① Standard direction of the material being detected
- ② Center of optical axis, sender
- ③ Center of optical axis, receiver
- ④ Mounting hole, $\varnothing$ 5.2 mm
- ⑤ Connection
- ⑥ Display and adjustment elements

Recommended accessories

Other models and accessories → www.sick.com/W26

	Brief description	Type	Part no.
Universal bar clamp systems			
	Plate N12 for universal clamp. For mounting PL30A, P250 reflectors, W27 and WTR2 sensors., Zinc plated steel (sheet), Zinc die cast (clamping bracket), Universal clamp (2022726), mounting hardware	BEF-KHS-N12	2071950

SICK AT A GLANCE

SICK is one of the leading manufacturers of intelligent sensors and sensor solutions for industrial applications. A unique range of products and services creates the perfect basis for controlling processes securely and efficiently, protecting individuals from accidents and preventing damage to the environment.

We have extensive experience in a wide range of industries and understand their processes and requirements. With intelligent sensors, we can deliver exactly what our customers need. In application centers in Europe, Asia and North America, system solutions are tested and optimized in accordance with customer specifications. All this makes us a reliable supplier and development partner.

Comprehensive services complete our offering: SICK LifeTime Services provide support throughout the machine life cycle and ensure safety and productivity.

For us, that is “Sensor Intelligence.”

WORLDWIDE PRESENCE:

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