

ENGLISH

Photoelectric proximity sensor
with background suppression
Operating instructions

Safety notes

- Not a safety component in accordance with EU Machinery Directive.
- Read the operating instructions before commissioning.
- Connection, mounting, and setting is only to be performed by trained specialists.
- UL: Only for use in applications in accordance with NFPA 79. Adapters listed by UL with connection cables are available. Enclosure type 1.
- When commissioning, protect the device from moisture and contamination.

Correct use

The WTB2S-2 is a photoelectric sensor for the optical, noncontact detection of objects.

Starting operation

1 The sensing ranges for the WTB2S-2Xxx0 pushbuttons are assigned permanent settings during production. No further settings need to be made. Check the application conditions such as size and reflectance capacity of the object as well as background influences and compare with the switching distance diagram of the WTB2S-2 type being used.

2 WTB2S-2Fxxx and WTB2S-2Exxx

D: dark-switching, output (Q) switches off when an object is present in the sensing range.

WTB2S-2P13xx and WTB2S-2P31xx
WTB2S-2N13xx and WTB2S-2N31xx

L: light-switching. Output (Q) switches on when an object is present in the sensing range.

WTB2S-2P11xx and WTB2S-2P32xx
WTB2S-2N11xx and WTB2S-2N32xx

ANT: complementary outputs Q and \bar{Q} .

Maintenance

SICK light barriers are maintenance-free.

We recommend doing the following regularly:

- Clean the external lens surfaces.
- Check the screw connections and plug-in connections.

No modifications may be made to devices.

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8016618.YFA7 1014 COMAT

WTB2S-2

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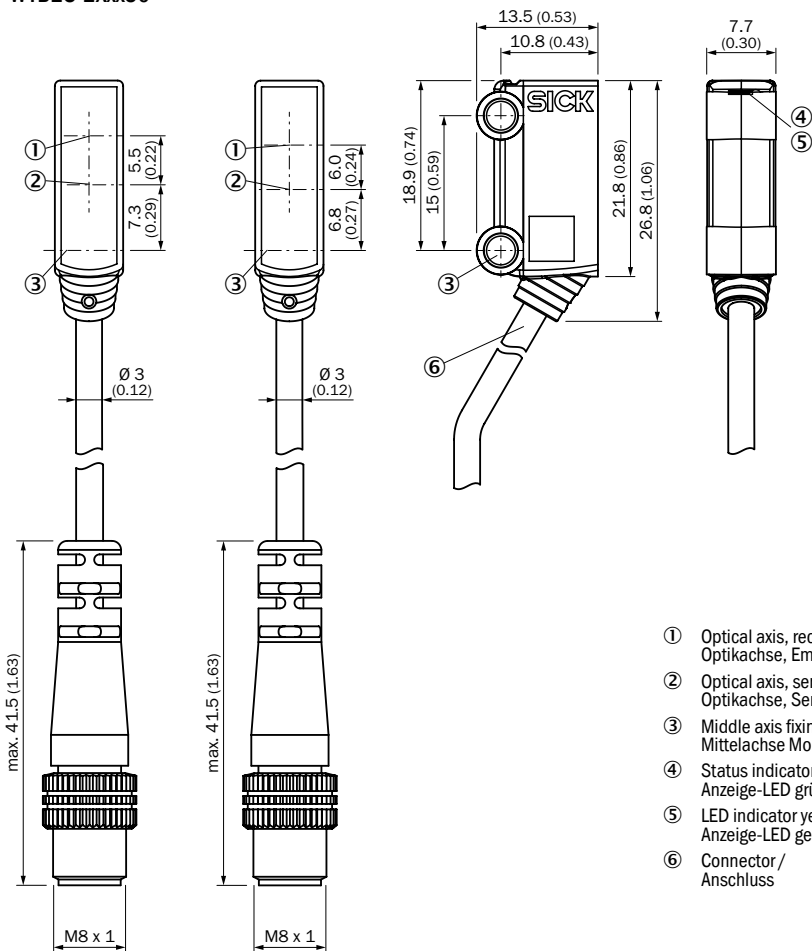
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A WTB2S-2Xxx10
WTB2S-2Xxx30

WTB2S-2Xxx60



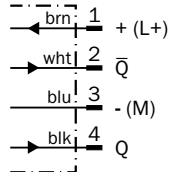
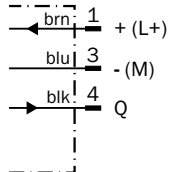
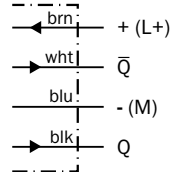
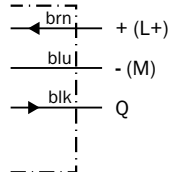
- Optical axis, receiver / Optikachse, Empfänger
- Optical axis, sender / Optikachse, Sender
- Middle axis fixing hole \varnothing 3.2 mm (0.13) / Mittelachse Montagebohrung \varnothing 3,2 mm
- Status indicator LED green: power on / Anzeige-LED grün: Betriebsspannung aktiv
- LED indicator yellow: status of received light beam / Anzeige-LED gelb: Status Lichtempfang
- Connector / Anschluss

B WTB2S-2P / N13xx
WTB2S-2F / E13xx

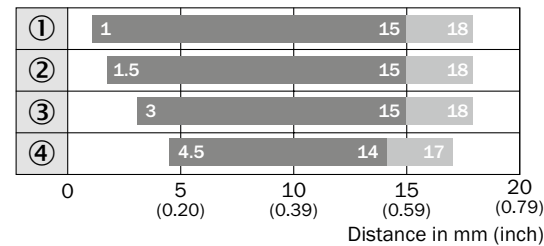
WTB2S-2P / N11xx
WTB2S-2F / E11xx

WTB2S-2P / N31xx
WTB2S-2F / E31xx

WTB2S-2P / N32xx
WTB2S-2F / E32xx



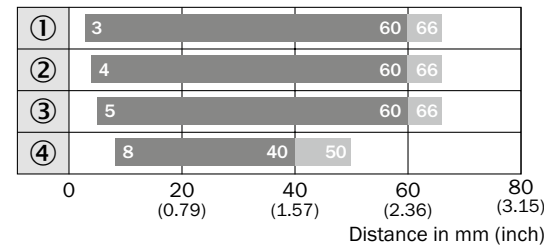
1a WTB2S-2Xxx10



■ Sensing range ■ Sensing range max.

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

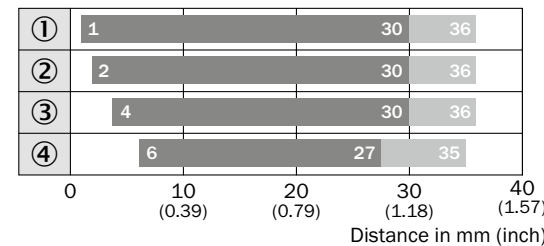
1c WTB2S-2Xxx60



■ Sensing range ■ Sensing range max.

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

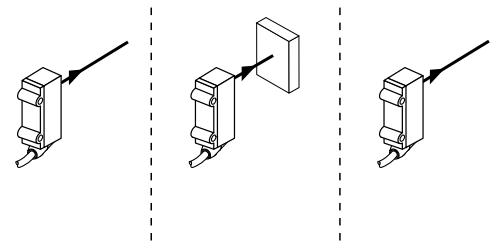
1b WTB2S-2Xxx30



■ Sensing range ■ Sensing range max.

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

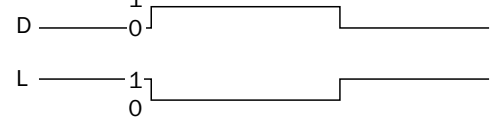
2



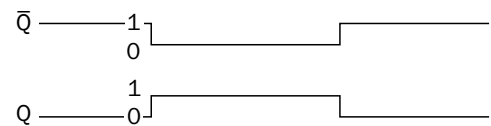
Q (PNP)



Q (NPN)



PNP (ANT)



NPN (ANT)

