

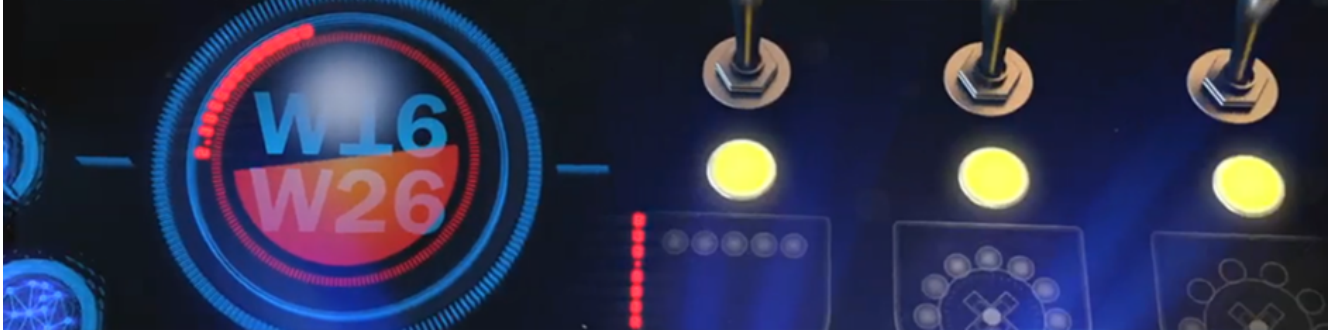


## W26

Stars in object detection

**SICK**  
Sensor Intelligence.

## Advantages



## Easy and quick sensor alignment using BluePilot

Using the innovative BluePilot alignment aid, the sensors in the W16 and W26 product family can be commissioned in seconds. The blue LED display provides direct feedback to assist you with optimally aligning the sensors and reflectors as well as senders and receivers. In the case of the photoelectric proximity sensors, a push-and-turn mechanism enables the sensor to be adjusted quickly and precisely, thereby eliminating the customary time-consuming fine adjustment using rotary controls.

BluePilot also reports any change in detection quality, e.g., due to contamination or vibrations, which ensures faults are detected in a timely manner, long before a production downtime occurs.

## Faster, convenient start-up



### Photoelectric retro-reflective and through-beam photoelectric sensors

- The blue LED alignment aid speeds up the process of optimally aligning the sensors and reflectors or senders and receivers
- Any changes in the operational safety due to contamination or vibrations can be recognized at a glance



### Photoelectric proximity switch

- Select the right mode for the object type in question by simply rotating the control element



### Photoelectric retro-reflective sensor for detecting transparent objects

- Select the right mode for the object type in question by simply rotating the control element



**With the new BluePilot operating concept, you will save valuable time commissioning the sensor, and avoid production downtimes thanks to the timely reporting of faults.**



## Rugged and reliable

The sensors from the W26 product family are particularly rugged and reliable.

With the OptoFilter, the sensors see what they have to see: they are immune to LED lights, reflections from safety vests and the influence of depolarizing objects.

The sensors can also withstand many chemical, thermal and mechanical environmental influences thanks to the ultra-rugged VISTAL housing.

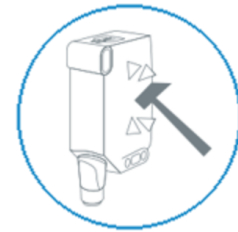
## Everything reliably detected



Thanks to the OptoFilter, the sensors feature high ambient light immunity.



If there is contamination, the W26 sensors automatically adjust their switching thresholds.



Thanks to the VISTAL housing, the sensors can also withstand extreme loads.



**The rugged design ensures high system availability and reduces down-times.**

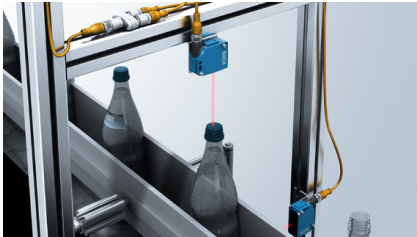


## Smart sensors for efficient machine communication

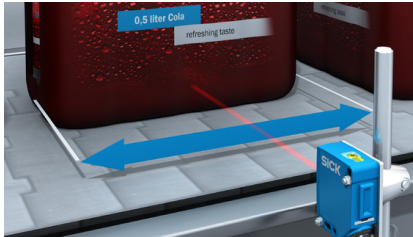
Smart Sensors provide indispensable input for every process chain. They support dynamic, real-time-optimized, and self-organized industry processes. The Smart Sensors W16 and W26 capture real-life situations, and generate and receive data and information beyond traditional switching signals or measured process parameters.

[Find out more](https://www.sick.de/smart-sensors)

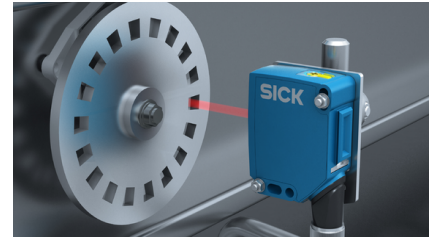
### From raw signals to customized information



Base logic: User-definable logic functions with trigger sensors and switching signal delays



Time measurement and debouncing with the aid of the Time Measurement and Debouncing Smart Task



W26 with the Counter and Debouncing Smart Task counts and evaluates detection signals



**Interconnectivity and efficient processing of data ensure leaner structures and cost benefits for your process.**

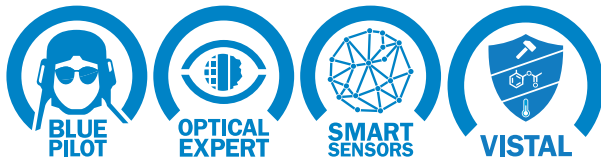


## Technical data overview

|                                    |  |
|------------------------------------|--|
| <b>Dimensions (W x H x D)</b>      | 24.6 mm x 82.5 mm x 53.3 mm<br>20 mm x 55.7 mm x 42 mm   |
| <b>Functional principle detail</b> | Background suppression<br>NarrowBeam<br>Foreground suppression<br>TwinEye technology<br>Autocollimation<br>Dual lens (depending on type) |
| <b>Light source</b>                | PinPoint LED / LED (depending on type)   |
| <b>Type of light</b>               | Visible red light / Infrared light (depending on type)   |
| <b>Enclosure rating</b>            | IP66 / IP67 / IP69 / IP65 (depending on type)  |
| <b>Housing material</b>            | Plastic  |
| <b>Adjustment</b>                  | Teach-in button<br>Cable<br>Potentiometer<br>Teach-Turn adjustment<br>None (depending on type)   |

## Product description

The W26 is equipped with new technologies such as TwinEye and OptoFilter for reliable object detection. It can be quickly and conveniently adjusted via the BluePilot operating and display concept. Since every W26 is designed as a Smart Sensor, it can be configured to fit the application via IO-Link and offers additional diagnostic functions and Smart Tasks. It is therefore a trailblazer on the path to Industry 4.0. The highly-visible PinPoint LED and the infrared LED are available as the light source. The durable laser inscription ensures device identification in the long run. Thanks to the very rugged VISTAL® housing and the predictive maintenance, the W26 offers very high reliability and prevents unplanned machine downtimes.



## At a glance

- Technologies: TwinEye with OptoFilter
- BluePilot: Optical alignment aid, adjustment of the sensing range via Teach-Turn adjustment with optical sensing range indicator or via IO-Link
- PinPoint LED: Light-intensive red sender LED
- Smart Sensor: Enhanced Sensing, IO-Link, Diagnostics, Smart Tasks

## Your benefits

- Usability and uniform operation thanks to optical quality display on the housing or conveniently via IO-Link
- Simplification when aligning the light beam to the reflector, the receiver or to an object thanks to the highly-visible light spot of the PinPoint LED combined with the optical LED display
- Very high reliability thanks to new detection technologies as well as high optical ruggedness
- The Smart Sensor makes machine processes quicker, more efficient and transparent, enables predictive maintenance and is thereby a trailblazer for Industry 4.0 applications

## Fields of application

- Consumer goods
- Automotive and parts suppliers
- Wood
- Storage and conveyor
- Handling and assembly
- Metal and steel
- Stone, ceramic, glass
- Textile

## Ordering information

Other models and accessories → [www.sick.com/W26](http://www.sick.com/W26)

- **Sensing range min. / max.:** 30 mm / 1,600 mm
- **Functional principle:** Photoelectric proximity sensor
- **Light source:** PinPoint LED
- **Type of light:** visible red light
- **Housing:** rectangular

| Functional principle detail        | Switching output   | Connection type                                       | Type   | Part no.           |
|------------------------------------|--------------------|---|--|--------------------|
| Background suppression             | PNP                | Male connector M12, 4-pin                             | WTB26P-24861120A00                           | 1115766            |
|                                    |                    | Push-pull: PNP/NPN                                    | Cable with M12 male connector, 4-pin, 318 mm | WTB26P-34161120A00 |
|                                    | Push-pull: PNP/NPN | Cable with Q6 male connector, 6-pin, DC-coded, 298 mm | WTB26P-39422122ZZZ                           | 1222809            |
|                                    |                    |   | WTB26P-39721122ZZZ                           | 1222804            |
|                                    |                    | Cable with Q7 male connector, 7-pin, DC-coded, 298 mm | WTB26P-3B111120ZZZ                           | 1222816            |
|                                    | Cable, 4-wire, 2 m | WTB26P-1H161120A00                                    | 1218824                                      |                    |
|                                    |                    | WTB26P-1H162120A00                                    | 1222744                                      |                    |
| Male connector M12, 4-pin          | WTB26P-24161120A00 | 1218666   |  |                    |
| Background suppression, NarrowBeam | Push-pull: PNP/NPN | Male connector M12, 4-pin                             | WTB26P-24113520ZZZ                           | 1222813            |
|                                    |                    |   | WTB26P-24161520A00                           | 1222705            |

- **Sensing range min. / max.:** 30 mm / 3,000 mm
- **Functional principle:** Photoelectric proximity sensor
- **Functional principle detail:** Background suppression
- **Housing:** rectangular

| Switching output   | Light source              | Type of light      | Connection type           | Type               | Part no.                                     |
|--------------------|---------------------------|--------------------|---------------------------|--------------------|--|
| NPN                | LED                       | Infrared light     | Male connector M12, 4-pin | WTB26I-24G11420ZZZ | 1124859                                      |
|                    |                           |                    |                           |                    | 1133143                                      |
| PNP                | LED                       | Infrared light     | Male connector M12, 4-pin | WTB26I-24861420A00 | 1123835                                      |
|                    |                           |                    |                           | WTB26I-24861421A00 | 1126768                                      |
| Push-pull: PNP/NPN | LED                       | Infrared light     | Cable, 4-wire, 2 m        | WTB26I-1H161420A00 | 1222713                                      |
|                    |                           |                    |                           | WTB26I-1H162420A00 | 1222712                                      |
|                    |                           |                    | Male connector M12, 4-pin | WTB26I-24161420A00 | 1222711                                      |
|                    |                           |                    |                           | WTB26I-24161422A00 | 1109760                                      |
|                    |                           |                    |                           | WTB26I-24162420A00 | 1222675                                      |
|                    |                           |                    | PinPoint LED              | Visible red light  | Cable with M12 male connector, 4-pin, 318 mm |
|                    | Male connector M12, 4-pin | WTB26P-24113420ZZZ |                           |                    |  |
|                    |                           |                    | WTB26P-24161420A00        | 1222709            |  |

- **Sensing range min. / max.:** 30 mm / 2,000 mm
- **Functional principle:** Photoelectric proximity sensor
- **Functional principle detail:** Background suppression
- **Switching output:** push-pull: PNP/NPN
- **Light source:** LED
- **Type of light:** Infrared light
- **Housing:** rectangular

| Connection type                                       | Type               | Part no. |
|---|--------------------|----------|
| Cable with M12 male connector, 4-pin, 318 mm          | WTB26I-34161120A00 | 1218827  |
| Cable with Q6 male connector, 6-pin, DC-coded, 298 mm | WTB26I-39422122ZZZ | 1222810  |
|   | WTB26I-39721122ZZZ | 1222808  |
| Cable with Q7 male connector, 7-pin, DC-coded, 298 mm | WTB26I-3B111120ZZZ | 1222817  |
| Cable, 4-wire, 2 m                                    | WTB26I-1H161120A00 | 1218825  |
| Male connector M12, 4-pin                             | WTB26I-24115120ZZZ | 1222815  |
|   | WTB26I-24116120ZZZ | 1222814  |
|   | WTB26I-24161120A00 | 1218667  |
|   | WTB26I-24161122A00 | 1222797  |
|   | WTB26I-24162120A00 | 1221726  |
|   | WTB26I-24162122A00 | 1222796  |

- **Sensing range min. / max.:** 0 mm / 800 mm
- **Functional principle:** Photoelectric proximity sensor
- **Functional principle detail:** Foreground suppression
- **Switching output:** push-pull: PNP/NPN

| Light source | Type of light     | Connection type           | Housing     | Type               | Part no. |
|--------------|-------------------|---------------------------|-------------|--------------------|----------|
| PinPoint LED | Visible red light | Male connector M12, 4-pin | Rectangular | WTF26P-24161420A00 | 1113470  |

- **Sensing range min. / max.:** 10 mm / 1,000 mm
- **Functional principle:** Photoelectric proximity sensor
- **Functional principle detail:** Background suppression, TwinEye technology
- **Switching output:** push-pull: PNP/NPN
- **Housing:** rectangular

| Light source | Type of light     | Connection type                              | Type               | Part no. |
|--------------|-------------------|--|--------------------|----------|
| LED          | Infrared light    | Male connector M12, 4-pin                    | WTS26I-24161120A00 | 1137249  |
| PinPoint LED | Visible red light | Cable with M12 male connector, 4-pin, 318 mm | WTS26P-34161120A00 | 1218949  |
|              |                   | Cable, 4-wire, 2 m                           | WTS26P-1H161120A00 | 1218950  |
|              |                   | Male connector M12, 4-pin                    | WTS26P-24161120A00 | 1218668  |
|              |                   |  | WTS26P-24161120A70 | 1219799  |
|              |                   |  | WTS26P-24162120A00 | 1221727  |
|              |                   |  | WTS26P-2416H120A71 | 1219800  |



- **Sensing range min. / max.:** 10 mm / 500 mm
- **Functional principle:** Photoelectric proximity sensor
- **Functional principle detail:** Background suppression, TwinEye technology
- **Switching output:** push-pull: PNP/NPN

| Light source | Type of light     | Connection type           | Housing     | Type               | Part no. |
|--------------|-------------------|---------------------------|-------------|--------------------|----------|
| LED          | Visible red light | Male connector M12, 4-pin | Rectangular | WTS26G-24161920A00 | 1128822  |

- **Sensing range min. / max.:** 0 m / 18 m
- **Functional principle:** Photoelectric retro-reflective sensor
- **Functional principle detail:** autocollimation
- **Light source:** PinPoint LED
- **Type of light:** visible red light
- **Housing:** rectangular

| Switching output   | Connection type                                       | Type               | Part no. |
|--------------------|---|--------------------|----------|
| PNP                | Male connector M12, 4-pin                             | WLA26P-24862130A00 | 1115760  |
| Push-pull: PNP/NPN | Cable with M12 male connector, 4-pin, 318 mm          | WLA26P-34162100A00 | 1218823  |
|                    | Cable with Q6 male connector, 6-pin, DC-coded, 298 mm | WLA26P-39421102ZZZ | 1222790  |
|                    |   | WLA26P-39722102ZZZ | 1222819  |
|                    | Cable with Q7 male connector, 7-pin, DC-coded, 298 mm | WLA26P-3B112100ZZZ | 1222791  |
|                    | Cable, 4-wire, 2 m                                    | WLA26P-1H162100A00 | 1218822  |
|                    | Male connector M12, 4-pin                             | WLA26P-24114100ZZZ | 1222793  |
|                    |   | WLA26P-24116100ZZZ | 1222792  |
|                    |   | WLA26P-24161100A00 | 1221732  |
|                    |   | WLA26P-24162100A00 | 1218664  |
|                    |   | WLA26P-24162130A00 | 1111236  |
|                    |   | 1111293            |          |
|                    | WLA26P-2416A100A00                                    | 1222697            |          |

- **Sensing range min. / max.:** 0.25 m / 19 m
- **Functional principle:** Photoelectric retro-reflective sensor
- **Functional principle detail:** Dual lens
- **Switching output:** push-pull: PNP/NPN
- **Light source:** PinPoint LED
- **Type of light:** visible red light
- **Housing:** rectangular

| Connection type                              | Type               | Part no. |
|--|--------------------|----------|
| Cable with M12 male connector, 4-pin, 318 mm | WLD26P-341121A0ZZZ | 1221733  |
| Cable, 4-wire, 2 m                           | WLD26P-1H1121A0ZZZ | 1218805  |
| Male connector M12, 4-pin                    | WLD26P-241121A0ZZZ | 1218699  |

- **Sensing range min. / max.:** 0.25 m / 3 m
- **Functional principle:** Photoelectric retro-reflective sensor
- **Functional principle detail:** Dual lens
- **Switching output:** push-pull: PNP/NPN

| Light source | Type of light     | Connection type           | Housing     | Type               | Part no. |
|--------------|-------------------|---------------------------|-------------|--------------------|----------|
| PinPoint LED | Visible red light | Male connector M12, 4-pin | Rectangular | WLD26P-241122A0ZZZ | 1113466  |

- **Sensing range min. / max.:** 0 m / 60 m
- **Functional principle:** Through-beam photoelectric sensor
- **Switching output:** push-pull: PNP/NPN
- **Housing:** rectangular

| Light source       | Type of light     | Connection type                                       | Type               | Part no. |
|--------------------|-------------------|---|--------------------|----------|
| LED                | Infrared light    | Cable with M12 male connector, 4-pin, 318 mm          | WSE26I-34162100A00 | 1088333  |
|                    |                   | Cable, 4-wire, 2 m                                    | WSE26I-1H162100A00 | 1088334  |
|                    |                   | Male connector M12, 4-pin                             | WSE26I-24162100A00 | 1088332  |
| PinPoint LED       | Visible red light | Cable with M12 male connector, 4-pin, 318 mm          | WSE26P-34162100A00 | 1088336  |
|                    |                   | Cable with Q6 male connector, 6-pin, DC-coded, 298 mm | WSE26P-39112102ZZZ | 1102912  |
|                    |                   | Cable with Q7 male connector, 7-pin, DC-coded, 298 mm | WSE26P-3B112100ZZZ | 1102913  |
|                    |                   | Cable, 4-wire, 2 m                                    | WSE26P-1H162100A00 | 1088337  |
|                    |                   | Male connector M12, 4-pin                             | WSE26P-24162100A00 | 1088335  |
|                    |                   |   | 1102909            |          |
| WSE26P-24165100A00 | 1118267           |   |                    |          |

- **Sensing range min. / max.:** 5 m / 120 m
- **Functional principle:** Through-beam photoelectric sensor

| Switching output      | Light source | Type of light     | Connection type           | Housing     | Type               | Part no. |
|-----------------------|--------------|-------------------|---------------------------|-------------|--------------------|----------|
| Push-pull:<br>PNP/NPN | LED          | Visible red light | Male connector M12, 4-pin | Rectangular | WSE26G-24162400A00 | 1127145  |

## 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:

Contacts and other locations –[www.sick.com](http://www.sick.com)