



WEU26/3-203A00S01

WSU/WEU26-3

SAFETY SINGLE-BEAM SENSORS

SICK
Sensor Intelligence.



Ordering information

| Scanning range | System part | Type | Part no. |
|----------------|-------------|-------------------|----------|
| 70 m | Receiver | WEU26/3-203A00S01 | 1089127 |

Other models and accessories → www.sick.com/WSU_WEU26-3



Detailed technical data

Features

| | |
|------------------------------------|-------------------------|
| Scanning range | 70 m |
| Dimension of the light path | 15 m ... 70 m |
| Number of beams | 1 |
| Detection capability | 30 mm |
| Response time | ≤ 22 ms |
| Front screen heating | ✓ |
| Synchronization | Optical synchronisation |

Safety-related parameters

| | |
|---|--|
| Type | Type 4 (IEC 61496-1) |
| Safety integrity level | SIL 3 (IEC 61508) |
| Category | Category 4 (EN ISO 13849) |
| Performance level | PL e (EN ISO 13849) |
| B_{10d} parameter | 1 x 10 ⁶ switching cycles (DC-13, 24 V, 0.6 A), 2 x 10 ⁵ switching cycles (DC-13, 24 V, 1.5 A) |
| PFH_D (mean probability of a dangerous failure per hour) | 4.0 x 10 ⁻⁹ (EN ISO 13849) |
| T_M (mission time) | 20 years (EN ISO 13849) |

Interfaces

| | |
|-------------------------|---------------------------|
| Connection type | Male connector M12, 8-pin |
| Display elements | LEDs |

Electrical data

| | |
|-------------------------------------|-----------------------------------|
| Protection class | I (EN 50178) |
| Supply voltage V_S | 24 V DC (19.2 V DC ... 28.8 V DC) |
| Power consumption | ≤ 8 W |
| Switch-on time | ≤ 10 s ¹⁾ |

¹⁾ Upon applying the supply voltage.

| Switching outputs | | Relays |
|------------------------------------|--|---|
| Usage category | | AC-15/DC-13 (EN 60947-5-1) |
| Switching voltage | | 10 V DC ... 30 V DC 10 V AC ... 230 V AC |
| Current-carrying capacity per OSSD | | 0.02 A ... 2 A |
| Contact material | | Ag alloy with Au coating |
| Electrical life (relay contacts) | | $\geq 1 \times 10^5$ switching cycles |
| Mechanical life (relay contacts) | | $\geq 1 \times 10^7$ switching cycles |

¹⁾ Upon applying the supply voltage.

Mechanical data

| | |
|-------------------------------|--|
| Design | Rectangular |
| Dimensions (W x H x D) | 50 mm x 156 mm x 116 mm |
| Housing material | Aluminum die cast |
| Front screen material | Polycarbonate, scratch-resistant coating |
| Weight | ≤ 1 kg |

Ambient data

| | |
|--------------------------------------|--------------------------------------|
| Enclosure rating | IP67 (EN 60529) |
| Ambient operating temperature | -25 °C ... +55 °C |
| Storage temperature | -25 °C ... +70 °C |
| Air humidity | 15 % ... 95 %, Non-condensing |
| Vibration resistance | 5 g, 10 Hz ... 55 Hz (IEC 60068-2-6) |
| Shock resistance | 10 g, 16 ms (IEC 60068-2-29) |

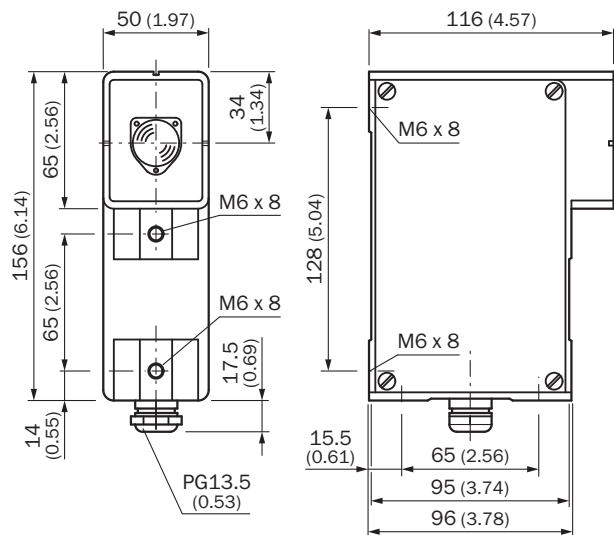
Other information

| | |
|--------------------|--------|
| Wave length | 850 nm |
|--------------------|--------|

Classifications


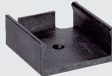





| | |
|-----------------------|----------|
| ECLASS 5.0 | 27272701 |
| ECLASS 5.1.4 | 27272701 |
| ECLASS 6.0 | 27272701 |
| ECLASS 6.2 | 27272701 |
| ECLASS 7.0 | 27272701 |
| ECLASS 8.0 | 27272701 |
| ECLASS 8.1 | 27272701 |
| ECLASS 9.0 | 27272701 |
| ECLASS 10.0 | 27272701 |
| ECLASS 11.0 | 27272701 |
| ECLASS 12.0 | 27272701 |
| ETIM 5.0 | EC001831 |
| ETIM 6.0 | EC001831 |
| ETIM 7.0 | EC001831 |
| ETIM 8.0 | EC001831 |
| UNSPSC 16.0901 | 46171620 |

Dimensional drawing (Dimensions in mm (inch))



Recommended accessories

Other models and accessories → www.sick.com/WSU_WEU26-3

| | Brief description | Type | Part no. |
|---|--|-------------------------|----------|
| Alignment aids | | | |
|  | Laser alignment aid for various sensors, laser class 2 (IEC 60825). Do not look into the beam!, 19 mm x 67.3 mm x 66.9 mm | AR60 | 1015741 |
|  | Adapter AR60 for WSU/WEU26-3 and WSU/WEU26/2 | AR60 adapter, WSU/WEU26 | 4031156 |
| Deflector mirrors | | | |
|  | Horizontal deflection, 75 mm x 80 mm reflector surface, Glass, Incl. mounting kit (2 x swivel mount) | PNS75-008 | 1026647 |
|  | Horizontal deflection, 96 mm x 124 mm reflector surface, Glass | PSK1 | 1005229 |
|  | Deflector mirror for 90° deflection, mirror surface 97 mm x 80 mm, not suitable for column mounting, Glass, mounting hardware included | PSK45 | 5306053 |
| Test and monitoring tools | | | |
|  | 30 mm diameter, 250 mm length | Test rod 30 mm | 2022602 |
| Mounting brackets and plates | | | |
|  | Bracket, face side mounting position | BEF-4WNAEFAL1 | 2007900 |

| | Brief description | Type | Part no. |
|---|--|--------------------|----------|
|  | Spring mounting for PSK1 deflector mirror | BEF-4AAAAHST3 | 2012473 |
| Plug connectors and cables | | | |
|  | <ul style="list-style-type: none"> • Connection type head A: Female connector, M12, 8-pin, straight, A-coded • Connection type head B: Flying leads • Signal type: Sensor/actuator cable • Cable: 2.5 m, 8-wire, PUR, halogen-free • Description: Sensor/actuator cable, unshielded • Application: Zones with oils and lubricants, Drag chain operation, Robot | YF2A18-025UA5XLEAX | 2099229 |
| | <ul style="list-style-type: none"> • Connection type head A: Female connector, M12, 8-pin, straight, A-coded • Connection type head B: Flying leads • Signal type: Sensor/actuator cable • Cable: 5 m, 8-wire, PUR, halogen-free • Description: Sensor/actuator cable, unshielded • Application: Zones with oils and lubricants, Drag chain operation, Robot | YF2A18-050UA5XLEAX | 2095653 |
| | <ul style="list-style-type: none"> • Connection type head A: Female connector, M12, 8-pin, straight, A-coded • Connection type head B: Flying leads • Signal type: Sensor/actuator cable • Cable: 7.5 m, 8-wire, PUR, halogen-free • Description: Sensor/actuator cable, unshielded • Application: Zones with oils and lubricants, Drag chain operation, Robot | YF2A18-075UA5XLEAX | 2099230 |
|  | <ul style="list-style-type: none"> • Connection type head A: Female connector, M12, 8-pin, straight, A-coded • Connection type head B: Flying leads • Signal type: Sensor/actuator cable • Cable: 10 m, 8-wire, PUR, halogen-free • Description: Sensor/actuator cable, unshielded • Application: Zones with oils and lubricants, Drag chain operation, Robot | YF2A18-100UA5XLEAX | 2095654 |
| | <ul style="list-style-type: none"> • Connection type head A: Female connector, M12, 8-pin, angled, A-coded • Connection type head B: Flying leads • Signal type: Sensor/actuator cable • Cable: 2 m, 8-wire, PUR, halogen-free • Description: Sensor/actuator cable, unshielded • Application: Zones with oils and lubricants, Drag chain operation, Robot | YG2A18-020UA5XLEAX | 2095779 |
| | <ul style="list-style-type: none"> • Connection type head A: Female connector, M12, 8-pin, angled, A-coded • Connection type head B: Flying leads • Signal type: Sensor/actuator cable • Cable: 5 m, 8-wire, PUR, halogen-free • Description: Sensor/actuator cable, unshielded • Application: Zones with oils and lubricants, Drag chain operation, Robot | YG2A18-050UA5XLEAX | 2095780 |
| | <ul style="list-style-type: none"> • Connection type head A: Female connector, M12, 8-pin, angled, A-coded • Connection type head B: Flying leads • Signal type: Sensor/actuator cable • Cable: 10 m, 8-wire, PUR, halogen-free • Description: Sensor/actuator cable, unshielded • Application: Zones with oils and lubricants, Drag chain operation, Robot | YG2A18-100UA5XLEAX | 2095781 |

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