

YF8U14-100UB3XLEAX





## Ordering information

| Туре               | Part no. |
|--------------------|----------|
| YF8U14-100UB3XLEAX | 2101510  |

Other models and accessories → www.sick.com/



#### Detailed technical data

## Technical specifications

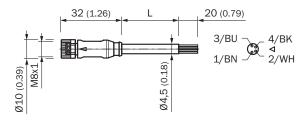
| Accessory family Connection type head A Connection type head B Locking plug connector Connector material Locking nut material Seal material Tightening torque Vidth across flats Jacket material Jacket actoor Conductor coss-section Conductor coss-section Conductor coss-section Shelding Bending radius Flexible use Stationary position Drag chain operation Drag chain operation  Ended Seal material Seal material Jox AM Seal material Jox Conductor cross-section Seal material Jox Conductor Cross |                         |  |
|--|-------------------------|--|
| Connection type head A       Female connector, M8, 4-pin, straight, A-coded         Connection type head B       Flying leads         Locking plug connector       Screw connection         Connector material       TPU         Connector color       Black         Locking nut material       FKM         Tightening torque       0.4 Nm         Width across flats       9         Cable       10 m, 4-wire, PUR, halogen-free         Jacket material       PUR, halogen-free         Jacket color       Black         Cable diameter       4.5 mm         Conductor cross-section       0.34 mm²         Shielding       Unshielded         Bendling radius       > 10 x cable diameter         Flexible use       > 10 x cable diameter         Stationary position       > 5 x cable diameter         Prag chain operation       > 10 x cable diameter         Bendling cycles       10,000,000         Reference voltage       60 V DC         Reference voltage       1.5 kV  | Accessory group         | Plug connectors and cables                     |
| Connection type head B       Flying leads         Locking plug connector       Screw connection         Connector material       TPU         Connector color       Black         Locking nut material       Zinc die-cast, nickel-plated         Seal material       FKM         Tightening torque       0.4 Nm         Width across flats       9         Cable       10 m, 4-wire, PUR, halogen-free         Jacket material       PUR, halogen-free         Jacket color       Black         Cable diameter       4.5 mm         Conductor cross-section       0.34 mm²         Shielding       Unshielded         Bendling radius       > 10 x cable diameter         Flexible use       > 10 x cable diameter         Stationary position       > 5 x cable diameter         Prag chain operation       > 10 x cable diameter         Bendling cycles       10,000,000         Reference voltage       60 V DC         Reference voltage       1.5 kV   | Accessory family        | Connecting cables                              |
| Locking plug connector         Screw connection           Connector material         TPU           Connector color         Black           Locking nut material         Zinc die-cast, nickel-plated           Seal material         FKM           Tightening torque         0.4 Nm           Width across flats         9           Cable         10 m, 4-wire, PUR, halogen-free           Jacket material         PUR, halogen-free           Jacket color         Black           Cable diameter         4.5 mm           Conductor cross-section         0.34 mm²           Shielding         Unshielded           Bending radius         > 10 x cable diameter           Flexible use         > 5 x cable diameter           Drag chain operation         > 10 x cable diameter           Bending cycles         10,000,000           Reference voltage         ≤ 60 V DC           Rated impulse voltage         1.5 kV   | Connection type head A  | Female connector, M8, 4-pin, straight, A-coded |
| Connector material       TPU         Connector color       Black         Locking nut material       Zinc die-cast, nickel-plated         Seal material       FKM         Tightening torque       0.4 Nm         Width across flats       9         Cable       10 m, 4-wire, PUR, halogen-free         Jacket material       PUR, halogen-free         Jacket color       Black         Cable diameter       4.5 mm         Conductor cross-section       0.34 mm²         Shielding       Unshielded         Bending radius       > 10 x cable diameter         Stationary position Drag chain operation       > 10 x cable diameter         Drag chain operation       > 10 x cable diameter         Bending cycles       10,000,000         Reference voltage       ≤ 60 V DC         Rated impulse voltage       1,5 kV  | Connection type head B  | Flying leads                                   |
| Connector colorBlackLocking nut materialZinc die-cast, nickel-platedSeal materialFKMTightening torque0.4 NmWidth across flats9Cable10 m, 4-wire, PUR, halogen-freeJacket materialPUR, halogen-freeJacket colorBlackCable diameter4.5 mmConductor cross-section0.34 mm²ShieldingUnshieldedBending radius> 10 x cable diameterStationary position> 5 x cable diameterDrag chain operation> 10 x cable diameterBending cycles10,000,000Reference voltage460 V DCRated impulse voltage1.5 kV   | Locking plug connector  | Screw connection                               |
| Locking nut materialZinc die-cast, nickel-platedSeal materialFKMTightening torque0.4 NmWidth across flats9Cable10 m, 4-wire, PUR, halogen-freeJacket materialPUR, halogen-freeJacket colorBlackCable diameter4.5 mmConductor cross-section0.34 mm²ShieldingUnshieldedBending radius> 10 x cable diameterStationary position Drag chain operation> 10 x cable diameterDrag chain operation10,000,000Reference voltage≤ 60 V DCRated impulse voltage1.5 kV   | Connector material      | TPU  |
| Seal materialFKMTightening torque0.4 NmWidth across flats9Cable10 m, 4-wire, PUR, halogen-freeJacket materialPUR, halogen-freeJacket colorBlackCable diameter4.5 mmConductor cross-section0.34 mm²ShieldingUnshieldedBending radiusFlexible use<br>Stationary position<br>Drag chain operation> 10 x cable diameterBending cycles10,000,000Reference voltage10,000,000Rated impulse voltage1.5 kV  | Connector color         | Black  |
| Tightening torque       0.4 Nm         Width across flats       9         Cable       10 m, 4-wire, PUR, halogen-free         Jacket material       PUR, halogen-free         Jacket color       Black         Cable diameter       4.5 mm         Conductor cross-section       0.34 mm²         Shielding       Unshielded         Bending radius       > 10 x cable diameter         Stationary position       > 5 x cable diameter         Drag chain operation       > 10 x cable diameter         Bending cycles       10,000,000         Reference voltage       ≤ 60 V DC         Rated impulse voltage       1.5 kV   | Locking nut material    | Zinc die-cast, nickel-plated                   |
| Width across flats  Cable  10 m, 4-wire, PUR, halogen-free  Jacket material  PUR, halogen-free  Black  Cable diameter  4.5 mm  Conductor cross-section  Shielding  Bending radius  Flexible use Stationary position Drag chain operation  Drag chain operation  Bending cycles  Reference voltage  Rated impulse voltage  1.5 kV   | Seal material           | FKM  |
| Cable 10 m, 4-wire, PUR, halogen-free  Jacket material PUR, halogen-free  Black Cable diameter 4.5 mm  Conductor cross-section 0.34 mm² Chielding Unshielded  Bending radius  Flexible use Stationary position Drag chain operation Drag chain operation Pursu color col | Tightening torque       | 0.4 Nm   |
| Jacket material       PUR, halogen-free         Jacket color       Black         Cable diameter       4.5 mm         Conductor cross-section       0.34 mm²         Shielding       Unshielded         Bending radius       Flexible use       > 10 x cable diameter         Stationary position Drag chain operation       > 5 x cable diameter         Drag chain operation       > 10 x cable diameter         Bending cycles       10,000,000         Reference voltage       ≤ 60 V DC         Rated impulse voltage       1.5 kV   | Width across flats      | 9  |
| Jacket colorBlackCable diameter4.5 mmConductor cross-section0.34 mm²ShieldingUnshieldedBending radius> 10 x cable diameterStationary position> 5 x cable diameterDrag chain operation> 10 x cable diameterBending cycles10,000,000Reference voltage60 V DCRated impulse voltage1.5 kV  | Cable                   | 10 m, 4-wire, PUR, halogen-free                |
| Cable diameter  Conductor cross-section  Shielding  Bending radius  Flexible use Stationary position Drag chain operation  Drag chain operation  Reference voltage  Rated impulse voltage  4.5 mm  0.34 mm² Unshielded  Vnshielded  Vnshie | Jacket material         | PUR, halogen-free                              |
| Conductor cross-section  Shielding  Bending radius  Flexible use Stationary position > 5 x cable diameter  Drag chain operation > 10 x cable diameter  10,000,000  Reference voltage  Rated impulse voltage  0.34 mm²  Unshielded  10 x cable diameter  > 10 x cable diameter  10,000,000  ≤ 60 V DC  Rated impulse voltage  1.5 kV  | Jacket color            | Black  |
| Shielding Bending radius  Flexible use Stationary position Drag chain operation  Drag chain operation  Perference voltage  Rated impulse voltage  Unshielded  Unshielded  10 x cable diameter  > 5 x cable diameter  > 10 x cable diameter  > 10 x cable diameter  > 10,000,000  ≤ 60 V DC  Rated impulse voltage  1.5 kV  | Cable diameter          | 4.5 mm   |
| Bending radius  Flexible use > 10 x cable diameter  Stationary position > 5 x cable diameter  Drag chain operation > 10 x cable diameter  Bending cycles 10,000,000  Reference voltage ≤ 60 V DC  Rated impulse voltage 1.5 kV   | Conductor cross-section | 0.34 mm <sup>2</sup>                           |
| Flexible use Stationary position > 5 x cable diameter > 5 x cable diameter > 10 x cable diameter > 10 x cable diameter > 10 x cable diameter > 10,000,000 Seference voltage  | Shielding               | Unshielded                                     |
| Stationary position Drag chain operation  Drag chain operation  Drag chain operation  10,000,000  Reference voltage  ≤ 60 V DC  Rated impulse voltage  1.5 kV  | Bending radius          |  |
| Drag chain operation > 10 x cable diameter  Bending cycles 10,000,000  Reference voltage ≤ 60 V DC  Rated impulse voltage 1.5 kV   | Flexible use            | > 10 x cable diameter                          |
| Bending cycles         10,000,000           Reference voltage         ≤ 60 V DC           Rated impulse voltage         1.5 kV   | Stationary position     | > 5 x cable diameter                           |
| Reference voltage ≤ 60 V DC  Rated impulse voltage 1.5 kV  | Drag chain operation    | > 10 x cable diameter                          |
| Rated impulse voltage 1.5 kV   | Bending cycles          | 10,000,000                                     |
|  | Reference voltage       | ≤ 60 V DC                                      |
| Current loading 4 A  | Rated impulse voltage   | 1.5 kV   |
|  | Current loading         | 4 A  |
| Traversing speed 3 m/s   | Traversing speed        | 3 m/s  |
| Travelling distance 10 m   | Travelling distance     | 10 m   |
| <b>Acceleration</b> ≤ 10 m/s <sup>2</sup>  | Acceleration            | ≤ 10 m/s²                                      |

| Signal type                    | Sensor/actuator cable                               |
|--------------------------------|---|
| Torsion force                  | 180°/1m   |
| Torsion cycles                 | 2,000,000   |
| Cycles per minutes             | 35  |
| Application                    | Zones with oils and lubricants Drag chain operation |
| Authorizations                 | UL  |
| UL File No.                    | E335179   |
| Enclosure rating               | IP65 / IP66K / IP67                                 |
| Ambient operating temperature  |   |
| Flexible use                   | -25 °C +80 °C                                       |
| Stationary position            | -40 °C +80 °C                                       |
| Drag chain operation           | -25 °C +80 °C                                       |
| Head                           | -25 °C +85 °C                                       |
| Contamination rating           | 3   |
| Insulation resistance          | 100 ΜΩ  |
| Overvoltage category           | III   |
| Specific insulation resistance | $30~\text{m}\Omega$                                 |

### Classifications

| ECI@ss 5.0     | 19030312 |
|----------------|----------|
| ECI@ss 5.1.4   | 19030312 |
| ECI@ss 6.0     | 27060304 |
| ECI@ss 6.2     | 27060304 |
| ECI@ss 7.0     | 27060304 |
| ECI@ss 8.0     | 27060304 |
| ECI@ss 8.1     | 27060304 |
| ECI@ss 9.0     | 27060304 |
| ECI@ss 10.0    | 27060304 |
| ECI@ss 11.0    | 27060304 |
| ETIM 5.0       | EC000830 |
| ETIM 6.0       | EC000830 |
| ETIM 7.0       | EC003249 |
| UNSPSC 16.0901 | 26121604 |

## Dimensional drawing (Dimensions in mm (inch))



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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."

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