

YF2A14-250UB3XLEAX

Sensor/actuator cable

PLUG CONNECTORS AND CABLES





Ordering information

| Туре | Part no. |
|--------------------|----------|
| YF2A14-250UB3XLEAX | 2095615 |

Other models and accessories -> www.sick.com/Sensor_actuator_cable



Detailed technical data

Technical specifications

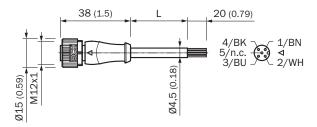
| Accessory family Connecting cables Connection type head A Female connector, M12, 4-pin, straight, A-coded Connection type head B Flying leads Locking plug connector Screw connection Connector material TPU Connector color Black Locking nut material Zinc die-cast, nickel-plated Seal material FKM Tightening torque 0.6 Nm Width across flats 13 Cable 25 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 Flexible use Stationary position > 10 x cable diameter Drag chain operation > 10 x cable diameter St cable diameter > 10 x cable diameter Bending cycles 10,000,000 Nominal voltage, cable 2,500 V AC Reference voltage 250 V DC Rated impulse voltage 2,50 V DC Rated | | |
|--|-------------------------|---|
| Connection type head A Connection type head B Locking plug connector Screw connection Connector material TPU Connector color Locking nut material Seal material FKM Tightening torque 0.6 Nm Width across flats 13 Cable 125 m, 4-wire, PUR, halogen-free Jacket color Black Cable diameter Conductor cross section Shielding Bending radius Flexible use Stationary position Drag chain operation Drag chain operation Bending cycles Nominal voltage, cable Screw connection TPU Black Cinc die cast, nickel-plated FKM Tightening torque 0.6 Nm Width across flats 13 Cable 13 Cable diameter 4.5 mm Conductor cross section 0.34 mm² Shielding Unshielded Bending radius Flexible use Stationary position Drag chain operation Drag chain operation Son V AC 2.50 V AC 250 V AC 250 V DC | Accessory group | Plug connectors and cables |
| Connection type head B Locking plug connector Connector material Connector color Locking nut material Seal material FKM Tightening torque Width across flats Cable Jacket material PUR, halogen-free Black Cable diameter Conductor cross section Shielding Bending radius Flexible use Stationary position Drag chain operation Bending cycles Nominal voltage, cable Test voltage, cable Connector material FKM Zinc die-cast, nickel-plated FKM A.5 mm A.6 Nm PUR, halogen-free Black 4.5 mm A.5 acable diameter A.5 x cable diamet | Accessory family | Connecting cables |
| Locking plug connector Connector material TPU Connector color Locking nut material Seal material FKM Tightening torque Width across flats Cable Jacket material Jacket color Cable diameter Conductor cross section Shelding Bending radius Flexible use Stationary position Drag chain operation Bending cycles Nominal voltage, cable Test voltage, cable Connector material TPU Black Zinc die-cast, nickel-plated FKM O.6 Nm U.6 Nm U.6 Nm U.6 Nm U.7 Nalogen-free Black 4.5 mm O.34 mm² Unshielded Unshielded Stationary position Drag chain operation Drag chain operation Bending cycles Nominal voltage, cable Test voltage, cable Z50 V AC Z50 V DC | Connection type head A | Female connector, M12, 4-pin, straight, A-coded |
| Connector material Connector color Locking nut material Seal material FKM Tightening torque Width across flats 13 Cable Jacket material PUR, halogen-free Jacket color Black Cable diameter Conductor cross section Shielding Bending radius Flexible use Stationary position Drag chain operation Drag chain operation Bending voltage, cable STATE VOLTAGE STATE ON AC Reference voltage PUR, halogen-free Black 4.5 mm 0.34 mm² Unshielded Unshielded PUR, halogen-free Black 4.5 mm 0.34 mm² Unshielded 10 x cable diameter > 5 x cable diameter > 10 x cable diameter > 10 x cable diameter > 10 x cable diameter > 10 x cable diameter > 10 x cable diameter > 25 x cable diameter > 10 x cable diameter | Connection type head B | Flying leads |
| Connector color Locking nut material Seal material FKM Tightening torque Width across flats 13 Cable 25 m, 4-wire, PUR, halogen-free Jacket material Jacket color Cable diameter Cable diameter Conductor cross section Shielding Bending radius Flexible use Stationary position Drag chain operation Drag chain operation Bending cycles Nominal voltage, cable Test voltage, cable Reference voltage 250 V AC 250 V DC | Locking plug connector | Screw connection |
| Locking nut material Seal material FKM Tightening torque 0.6 Nm Width across flats 13 Cable 25 m, 4-wire, PUR, halogen-free 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 Nominal voltage, cable Reference voltage 250 V AC 250 V DC | Connector material | TPU |
| FKM Tightening torque 0.6 Nm Width across flats 13 Cable 25 m, 4-wire, PUR, halogen-free Jacket material Jacket color Black Cable diameter 4.5 mm Conductor cross section Shielding Unshielded Bending radius Flexible use Stationary position Drag chain operation Drag chain operation Bending votes Nominal voltage, cable Test voltage, cable Reference voltage 250 V AC 250 V DC | Connector color | Black |
| Tightening torque Width across flats 13 Cable 25 m, 4-wire, PUR, halogen-free Jacket material Jacket color Black Cable diameter 4.5 mm Conductor cross section Shielding Bending radius Flexible use Stationary position Drag chain operation Drag chain operation Bending vycles Nominal voltage, cable Test voltage, cable Reference voltage 250 V AC 250 V DC | Locking nut material | Zinc die-cast, nickel-plated |
| Width across flats Cable 25 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 Unshielded Bending radius Flexible use Stationary position Drag chain operation Drag chain operation Bending cycles Nominal voltage, cable 300 V AC Test voltage, cable Reference voltage 250 V AC 250 V DC | Seal material | FKM |
| Cable Jacket material PUR, halogen-free PUR, halogen-free Black Cable diameter 4.5 mm Conductor cross section Shielding Unshielded Flexible use Stationary position Drag chain operation Drag chain operation Bending cycles Nominal voltage, cable Test voltage, cable Reference voltage 25 m, 4-wire, PUR, halogen-free P | Tightening torque | 0.6 Nm |
| Jacket material Jacket color Black Cable diameter Conductor cross section Shielding Bending radius Flexible use Stationary position Drag chain operation Drag chain operation Bending cycles Nominal voltage, cable Test voltage, cable Reference voltage 250 V AC 250 V DC | Width across flats | 13 |
| Jacket color Cable diameter 4.5 mm Conductor cross section Shielding Unshielded Bending radius Flexible use Stationary position Drag chain operation Drag chain operation Bending cycles Nominal voltage, cable Test voltage, cable 250 V AC 250 V DC | Cable | 25 m, 4-wire, PUR, halogen-free |
| Cable diameter Conductor cross section Shielding Unshielded Bending radius Flexible use Stationary position Drag chain operation Drag chain operation Bending cycles Nominal voltage, cable Test voltage, cable Reference voltage 250 V AC 250 V DC | Jacket material | PUR, halogen-free |
| Conductor cross section Shielding Bending radius Flexible use Stationary position Drag chain operation Drag chain operation Bending cycles Nominal voltage, cable Test voltage, cable Reference voltage 250 V AC 250 V DC | Jacket color | Black |
| Shielding Bending radius Flexible use Stationary position Drag chain operation Bending cycles Nominal voltage, cable Test voltage, cable Reference voltage 250 V AC 250 V DC | Cable diameter | 4.5 mm |
| Bending radius Flexible use > 10 x cable diameter Stationary position Drag chain operation > 5 x cable diameter 10,000,000 Nominal voltage, cable 300 V AC Test voltage, cable 2,500 V AC Reference voltage 250 V AC 250 V DC | Conductor cross section | 0.34 mm ² |
| Flexible use Stationary position Drag chain operation Drag chain operation Bending cycles Nominal voltage, cable Test voltage, cable Reference voltage 250 V AC 250 V DC | Shielding | Unshielded |
| Stationary position Drag chain operation Bending cycles 10,000,000 Nominal voltage, cable Test voltage, cable Reference voltage 250 V AC 250 V DC | Bending radius | |
| Drag chain operation > 10 x cable diameter 10,000,000 Nominal voltage, cable 300 V AC Test voltage, cable 2,500 V AC Reference voltage 250 V AC 250 V DC | Flexible use | > 10 x cable diameter |
| Bending cycles 10,000,000 Nominal voltage, cable 300 V AC Test voltage, cable 2,500 V AC Reference voltage 250 V AC 250 V DC 250 V DC | Stationary position | > 5 x cable diameter |
| Nominal voltage, cable Test voltage, cable 2,500 V AC Reference voltage 250 V AC 250 V DC | Drag chain operation | > 10 x cable diameter |
| Test voltage, cable Reference voltage 2,500 V AC 250 V AC 250 V DC | Bending cycles | 10,000,000 |
| Reference voltage 250 V AC 250 V DC | Nominal voltage, cable | 300 V AC |
| 250 V AC 250 V DC | Test voltage, cable | 2,500 V AC |
| 250 V DC | Reference voltage | |
| | | 250 V AC |
| Rated impulse voltage 2.5 kV | | 250 V DC |
| | Rated impulse voltage | 2.5 kV |

| Current loading | 4 A |
|--------------------------------|--|
| Traversing speed | 3 m/s |
| Travelling distance | 10 m |
| 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 Robot |
| Authorizations | CE 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 mΩ |
| Thermal resistance, piping | Flame retardant according to UL 1581, horizontal flame test/CSA FT2 / IEC 60332-1, IEC 60332-2-2 |
| | |

Classifications

| ECLASS 5.0 | 19030312 |
|----------------|----------|
| ECLASS 5.1.4 | 19030312 |
| ECLASS 6.0 | 27060304 |
| ECLASS 6.2 | 27060304 |
| ECLASS 7.0 | 27060304 |
| ECLASS 8.0 | 27060304 |
| ECLASS 8.1 | 27060304 |
| ECLASS 9.0 | 27060304 |
| ECLASS 10.0 | 27060304 |
| ECLASS 11.0 | 27060304 |
| ECLASS 12.0 | 27060304 |
| ETIM 5.0 | EC000830 |
| ETIM 6.0 | EC000830 |
| ETIM 7.0 | EC003249 |
| ETIM 8.0 | EC003249 |
| UNSPSC 16.0901 | 26121604 |

Dimensional drawing (Dimensions in mm (inch))



Recommended accessories

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

| | Brief description | Туре | Part no. | | |
|----------------------------|--|------------------|----------|--|--|
| Other mounting accessories | | | | | |
| | 1 piece, M12 mounting key set for SW13 with calibrated torque 0.6 Nm | T00L-TW06M12AF13 | 5337208 | | |
| Plug connectors and cables | | | | | |
| | Connection type head A: Female connector, M12, 5-pin, straight Description: Unshielded, Head A: female connector, M12, 5-pin, straight, unshielded, for cable diameter 4 mm 6 mm Head B: - Connection systems: Screw-type terminals Permitted cross-section: ≤ 0.75 mm² | DOS-1205-G | 6009719 | | |
| | Connection type head A: Male connector, M12, 5-pin, straight Description: Unshielded, Head A: male connector, M12, 5-pin, straight, unshielded, for cable diameter 4 mm 6 mm Head B: - Connection systems: Screw-type terminals Permitted cross-section: ≤ 0.75 mm² Note: For field bus technology | STE-1205-G | 6022083 | | |

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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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