

YF8U13-100UA1XLEAX

Sensor-actuator cables

CONNECTORS AND CABLES





Ordering information

| Туре | part no. |
|--------------------|----------|
| YF8U13-100UA1XLEAX | 2094789 |

Other models and accessories → www.sick.com/Sensor-actuator_cables



Detailed technical data

Technical specifications

| • | |
|-------------------------|--|
| Connection type head A | Female connector, M8, 3-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 | 0.4 Nm |
| Width across flats | 9 |
| Cable | 10 m, 3-wire, PUR, halogen-free |
| Jacket material | PUR, halogen-free |
| Jacket color | Black |
| Cable diameter | 4.1 mm |
| Conductor cross section | 0.25 mm ² |
| Shielding | Unshielded |
| 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 |
| Nominal voltage, cable | 300 V AC |
| Test voltage, cable | 2,500 V AC |
| Reference voltage | |
| | 50 V AC |
| | 60 V DC |
| Rated impulse voltage | 1.5 kV |
| Current loading | 4 A |
| Traversing speed | 3 m/s |
| | |

| Travelling distance 10 m/s² Signal type Sensor/actuator cable Torsion force 180°/1 m Torsion cycles 2,000,000 Cycles per minutes 35 Application Lincontaminated zones Zones with oils and lubricants Robot Porag chain operation Enclosure rating 1965 / IP66K / IP67 Operating temperature 25°C+80°C Stationary position -40°C+80°C Obrag chain operation -25°C+80°C Orag miniation rating 3 Insulation resistance 100 MΩ Overvoltage category III Specific insulation resistance, piping Flame retardant according to UL 1581, horizontal flame test/CSA FT2 / IEC 60332-1, IEC 60332-2-2 | | |
|--|--------------------------------|---|
| Signal type Sensor/actuator cable Torsion force 180° / 1 m Torsion cycles 2,000,000 Cycles per minutes 35 Application Uncontaminated zones Zones with oils and lubricants Robot Drag chain operation UL File No. E335179 Enclosure rating IP65 / IP66K / IP67 Operating temperature Flexible use Stationary position Para chain operation -25 °C +80 °C Operating temperature -40 °C +80 °C -25 °C +80 °C Ocntamination rating 1840 °C -25 °C +85 °C Contamination resistance 100 MΩ MΩ Overvoltage category III Specific insulation resistance, piping Flame retardant according to UL 1581, horizontal flame test/CSA FT2 / IEC 60332-1, | Travelling distance | 10 m |
| Torsion force 180° / 1 m 2,000,000 Cycles per minutes 35 Application Uncontaminated zones Zones with oils and lubricants Robot Drag chain operation E335179 Enclosure rating Operating temperature Flexible use Stationary position Drag chain operation Head Contamination rating Insulation resistance Overvoltage category Thermal resistance, piping 180° / 1 m 2,000,000 Uncontaminated zones Zones with oils and lubricants Robot Drag chain operation E335179 Insulation resistance 100 MΩ Flame retardant according to UL 1581, horizontal flame test/CSA FT2 / IEC 60332-1, | Acceleration | ≤ 10 m/s² |
| Torsion cycles Cycles per minutes Application Uncontaminated zones Zones with oils and lubricants Robot Drag chain operation Enclosure rating Operating temperature Flexible use Stationary position Drag chain operation Drag chain operation Pead Drag chain operation Stationary position Head Drag chain operation The mail resistance Overvoltage category Thermal resistance, piping Plocontamination rating Flame retardant according to UL 1581, horizontal flame test/CSA FT2 / IEC 60332-1, | Signal type | Sensor/actuator cable |
| Cycles per minutes Application UL File No. E335179 Enclosure rating Operating temperature Flexible use -25 °C +80 °C -40 °C +80 °C Drag chain operation Flexible use -25 °C +80 °C -25 °C +80 °C Contamination rating Insulation resistance Overvoltage category Specific insulation resistance Thermal resistance, piping JUL File No. E335179 Incontaminated zones Zones with oils and lubricants Robot Drag chain operation P65 / IP66K / IP67 Co +80 °C -40 °C +80 °C -25 °C +80 °C -25 °C +85 °C Contamination rating Insulation resistance 100 MΩ Flame retardant according to UL 1581, horizontal flame test/CSA FT2 / IEC 60332-1, | Torsion force | 180°/1m |
| Application Uncontaminated zones Zones with oils and lubricants Robot Drag chain operation Enclosure rating Departing temperature Flexible use Stationary position Drag chain operation Plead -25 °C +80 °C -40 °C +80 °C -25 °C +80 °C -25 °C +80 °C Contamination rating Insulation resistance Downwoltage category Ill Specific insulation resistance Temperature Uncontaminated zones Zones with oils and lubricants Robot Drag chain operation -25 °C +80 °C -40 °C +80 °C -25 °C +80 °C -25 °C +85 °C Contamination rating 3 Insulation resistance 100 MΩ Thermal resistance, piping Flame retardant according to UL 1581, horizontal flame test/CSA FT2 / IEC 60332-1, | Torsion cycles | 2,000,000 |
| UL File No. E335179 Enclosure rating IP65 / IP66K / IP67 Operating temperature Flexible use Stationary position Drag chain operation -40 °C +80 °C At a contamination rating 3 Insulation resistance 100 MΩ Overvoltage category III Specific insulation resistance, piping Flame retardant according to UL 1581, horizontal flame test/CSA FT2 / IEC 60332-1, | Cycles per minutes | 35 |
| Enclosure rating IP65 / IP66K / IP67 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 MΩ Overvoltage category III Specific insulation resistance, piping Flame retardant according to UL 1581, horizontal flame test/CSA FT2 / IEC 60332-1, | Application | Zones with oils and lubricants Robot |
| Operating temperature Flexible use | UL File No. | E335179 |
| Flexible use Stationary position $-25 ^{\circ}\text{C} \dots +80 ^{\circ}\text{C}$ Orag chain operation $-25 ^{\circ}\text{C} \dots +80 ^{\circ}\text{C}$ Head $-25 ^{\circ}\text{C} \dots +80 ^{\circ}\text{C}$ Contamination rating 3 Insulation resistance 100 M Ω Overvoltage category III Specific insulation resistance 30 m Ω Thermal resistance, piping Flame retardant according to UL 1581, horizontal flame test/CSA FT2 / IEC 60332-1, | Enclosure rating | IP65 / IP66K / IP67 |
| Stationary position $-40\ ^{\circ}\text{C} \dots +80\ ^{\circ}\text{C}$ Drag chain operation $-25\ ^{\circ}\text{C} \dots +80\ ^{\circ}\text{C}$ Head $-25\ ^{\circ}\text{C} \dots +85\ ^{\circ}\text{C}$ Contamination rating 3 Insulation resistance $100\ \text{M}\Omega$ Overvoltage category III Specific insulation resistance $30\ \text{m}\Omega$ Thermal resistance, piping Flame retardant according to UL 1581, horizontal flame test/CSA FT2 / IEC 60332-1, | Operating temperature | |
| Drag chain operation -25 °C +80 °CHead -25 °C +85 °CContamination rating3Insulation resistance $100 \text{ M}\Omega$ Overvoltage categoryIIISpecific insulation resistance $30 \text{ m}\Omega$ Thermal resistance, pipingFlame retardant according to UL 1581, horizontal flame test/CSA FT2 / IEC 60332-1, | Flexible use | -25 °C +80 °C |
| Head -25 °C +85 °C Contamination rating 3 Insulation resistance 100 MΩ 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, | Stationary position | -40 °C +80 °C |
| | Drag chain operation | -25 °C +80 °C |
| Insulation resistance $100 \text{ M}\Omega$ Overvoltage category III Specific insulation resistance $30 \text{ m}\Omega$ Thermal resistance, piping Flame retardant according to UL 1581, horizontal flame test/CSA FT2 / IEC 60332-1, | Head | -25 °C +85 °C |
| Overvoltage category III Specific insulation resistance $30 \text{ m}\Omega$ Thermal resistance, piping Flame retardant according to UL 1581, horizontal flame test/CSA FT2 / IEC 60332-1, | Contamination rating | 3 |
| Specific insulation resistance 30 mΩ Thermal resistance, piping Flame retardant according to UL 1581, horizontal flame test/CSA FT2 / IEC 60332-1, | Insulation resistance | 100 ΜΩ |
| Thermal resistance, piping Flame retardant according to UL 1581, horizontal flame test/CSA FT2 / IEC 60332-1, | Overvoltage category | III |
| | Specific insulation resistance | 30 mΩ |
| | Thermal resistance, piping | |

Certificates

| EU declaration of conformity | ✓ |
|------------------------------|---|
| UK declaration of conformity | ✓ |
| China-RoHS | ✓ |
| cULus certificate | ✓ |

Classifications

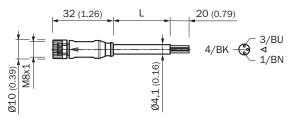
| ECLASS 5.0 | 19030312 |
|--------------|----------|
| ECLASS 5.1.4 | 19030312 |
| ECLASS 6.0 | 27060304 |
| ECLASS 6.2 | 27060304 |
| ECLASS 7.0 | 27060304 |
| ECLASS 8.0 | 27060304 |
| ECLASS 8.1 | 27060304 |
| ECLASS 9.0 | 27060304 |
| ECLASS 10.0 | 27060304 |
| ECLASS 11.0 | 27060304 |
| ECLASS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

YF8U13-100UA1XLEAX | Sensor-actuator cables

CONNECTORS AND CABLES

| 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_cables

| | Brief description | Туре | part no. | | |
|------------------|--|------------------|----------|--|--|
| connectors an | connectors and cables | | | | |
| | Connection type head A: Male connector, M8, 3-pin, straight, A-coded Description: Unshielded Connection systems: Screw-type terminals Permitted cross-section: 0.14 mm² 0.5 mm² | STE-0803-G | 6037322 | | |
| | Connection type head A: Female connector, M8, 3-pin, straight, A-coded Description: Unshielded Connection systems: Screw-type terminals Permitted cross-section: 0.14 mm² 0.5 mm² | DOS-0803-G | 7902077 | | |
| Mounting systems | | | | | |
| 1 | Description: M8 mounting key set for SW9 with calibrated torque 0.4 Nm Packing unit: 1 piece Suitable for: M8 Standard | TOOL-TWO4M08AF09 | 5337207 | | |

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