



YI8U14-030UA3M2A14

Sensor/actuator cable

PLUG CONNECTORS AND CABLES

SICK
Sensor Intelligence.



Ordering information

| Type | Part no. |
|--------------------|----------|
| Y18U14-030UA3M2A14 | 2123318 |

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

Detailed technical data

Technical specifications

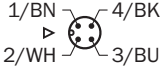
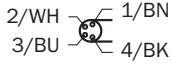
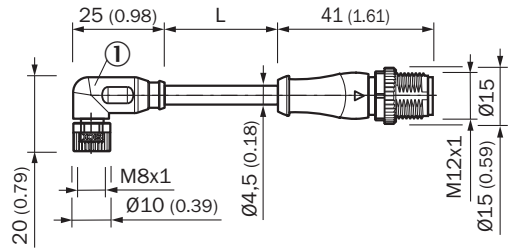
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|--------------------------------|--|--------------|-----------------------|---------------------|----------------------|----------------------|-----------------------|
| Connection type head A | Female connector, M8, 4-pin, angled, A-coded | | | | | | |
| Connection type head B | Male connector, M12, 4-pin, straight, A-coded | | | | | | |
| 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 (M8), 0.6 Nm (M12) | | | | | | |
| Width across flats | 9 (M8), 13 (M12) | | | | | | |
| Cable | 3 m, 4-wire, PUR, halogen-free | | | | | | |
| Jacket material | PUR, halogen-free | | | | | | |
| Jacket color | Black | | | | | | |
| Cable diameter | 4.5 mm | | | | | | |
| Conductor cross section | 0.25 mm ² | | | | | | |
| Shielding | Unshielded | | | | | | |
| Bending radius | <table border="0"> <tr> <td>Flexible use</td> <td>> 10 x cable diameter</td> </tr> <tr> <td>Stationary position</td> <td>> 5 x cable diameter</td> </tr> <tr> <td>Drag chain operation</td> <td>> 10 x cable diameter</td> </tr> </table> | Flexible use | > 10 x cable diameter | Stationary position | > 5 x cable diameter | Drag chain operation | > 10 x cable diameter |
| 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 | 24 V DC | | | | | | |
| Rated impulse voltage | 1.5 kV | | | | | | |
| Current loading | ≤ 4 A | | | | | | |
| Traversing speed | 3 m/s | | | | | | |
| Travelling distance | 10 m | | | | | | |
| Acceleration | ≤ 10 m/s ² | | | | | | |
| Signal type | Sensor/actuator cable | | | | | | |
| Torsion force | 180° / 1 m | | | | | | |
| Torsion cycles | 2,000,000 | | | | | | |

| | |
|---------------------------------------|--|
| Cycles per minutes | 35 |
| Application | Zones with oils and lubricants Drag chain operation Robot |
| Note | Only suitable for PNP sensors |
| Authorizations | UL |
| UL File No. | E335179 |
| Enclosure rating | IP65 / IP66K / IP67 |
| Description | LED function indicator |
| 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 | 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))



① LED

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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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