

YM2A2B-050UD3XLEAX

Sensor-actuator cables

CONNECTORS AND CABLES





Ordering information

| Туре | part no. |
|--------------------|----------|
| YM2A2B-050UD3XLEAX | 2131093 |

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



Detailed technical data

Technical specifications

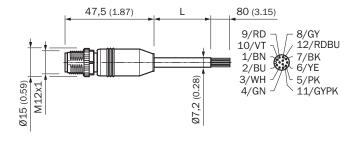
| Connection type head A Male connector, M12, 12-pin, straight, A-coded Connection type head B Flying leads Locking plug connector Screw connection Connector material TPU Connector color Black Locking nut material Zinc die-cast, nickel-plated Tightening torque 0.6 Nm Width across flats 13 Cable 5 m, 12-wire, PUR, halogen-free Jacket material PUR, halogen-free Jacket color Black Cable diameter 7.2 mm Conductor cross section 7.2 mm Shielded Shielded Bending radius Flexible use 5 x cable diameter Flexible use 5 x cable diameter 5 x cable diameter Soundon 5 x cable diameter Bending cycles 5 x cable diameter Bending speed 5.000,000 Rated impulse voltage 5.8 kV Current loading 1.5 A Travelling distance 5 m/s² Signal type 5 m/s² Signal type 5 m/s² S | | |
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| Locking nut material Zinc die-cast, nickel-plated Tightening torque 0.6 Nm Width across flats 13 Cable 5 m, 12-wire, PUR, halogen-free Jacket material PUR, halogen-free Jacket color Black Cable diameter 7.2 mm Conductor cross section 2 x 2 x 0.14 mm² Shielding Shielded Bending radius Flexible use Stationary position Drag chain operation 5 x cable diameter Drag chain operation > 5 x cable diameter Bending cycles 5,000,000 Rated impulse voltage 0.8 kV Current loading 1.5 A Traversing speed 3.3 m/s Travelling distance 5 m Acceleration ≤ 5 m/s² Signal type Sensor/actuator cable Torsion force 1 m Torsion cycles 500,000 Cycles per minutes 35 | Connector material | TPU |
| Tightening torque 0.6 Nm Width across flats 13 Cable 5 m, 12-wire, PUR, halogen-free Jacket material PUR, halogen-free Jacket color Black Cable diameter 7.2 mm Conductor cross section 2 x 2 x 0.14 mm² Shielding Shielded Bending radius > 10 x cable diameter Flexible use Stationary position Drag chain operation > 5 x cable diameter > 5 x cable diameter > 10 x cable diameter Bending cycles 5,000,000 Rated impulse voltage 0.8 kV Current loading 1.5 A Traversing speed 1.5 A Travelling distance 5 m/s² Acceleration ≤ 5 m/s² Signal type Sensor/actuator cable Torsion force 1 m Torsion cycles 500,000 Cycles per minutes 35 | Connector color | Black |
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| Shielding Bending radius Flexible use Stationary position Drag chain operation Drag chain operation Bending cycles Rated impulse voltage Current loading Traversing speed Travelling distance Acceleration Sensor/actuator cable Torsion cycles Cycles per minutes Shielded Shielded | Cable diameter | 7.2 mm |
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| Flexible use Stationary position Drag chain operation Drag chain operation Bending cycles Fated impulse voltage Current loading Traversing speed Travelling distance Acceleration Signal type Torsion force Torsion cycles Stationary position State diameter > 10 x cable diameter > 10 x cable diameter > 10 x cable diameter > 10 x cable diameter > 10 x cable diameter > 10 x cable diameter 10 x cable diameter 10 x cable diameter 10 x cable diameter 10 x cable diameter 10 x cable diameter 10 x cable diameter 10 x cable diameter 10 x cable diameter 10 x cable diameter 10 x cable diameter 10 x cable diameter 10 x cable diameter 10 x cable diameter 10 x cable diameter 10 x cable diameter 10 x cable diameter 10 x cable diameter 10 x cable diameter 10 x cable dia | Shielding | Shielded |
| Stationary position Drag chain operation Bending cycles 5,000,000 Rated impulse voltage 0.8 kV Current loading 1.5 A Traversing speed 3.3 m/s Travelling distance 5 m Acceleration ≤ 5 m/s² Signal type Sensor/actuator cable Torsion force 1 m Torsion cycles 500,000 Cycles per minutes > 5 x cable diameter > 10 x cable diameter > 10 x cable diameter > 10 x cable diameter 10 x cable diameter 10 x cable diameter 10 x cable diameter 10 x cable diameter 10 x cable diameter 10 x cable diameter 10 x cable diameter 10 x cable diameter 10 x cable diameter 10 x cable diameter 10 x cable diameter 10 x cable diameter 10 x cable diameter 10 x cable diameter 10 x cable diameter 10 x cable diameter 10 x c | Bending radius | |
| Drag chain operation Bending cycles 5,000,000 Rated impulse voltage 0.8 kV Current loading 1.5 A Traversing speed 3.3 m/s Travelling distance 5 m Acceleration ≤ 5 m/s² Signal type Sensor/actuator cable Torsion force 1 m Torsion cycles 500,000 Cycles per minutes 35 | Flexible use | > 10 x cable diameter |
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| Acceleration $\leq 5 \text{ m/s}^2$ Signal typeSensor/actuator cableTorsion force1 mTorsion cycles $500,000$ Cycles per minutes 35 | Traversing speed | 3.3 m/s |
| Signal type Sensor/actuator cable Torsion force 1 m Torsion cycles 500,000 Cycles per minutes 35 | Travelling distance | 5 m |
| Torsion force 1 m Torsion cycles 500,000 Cycles per minutes 35 | Acceleration | ≤ 5 m/s² |
| Torsion cycles 500,000 Cycles per minutes 35 | Signal type | Sensor/actuator cable |
| Cycles per minutes 35 | Torsion force | 1 m |
| | Torsion cycles | 500,000 |
| Application Uncontaminated zones | Cycles per minutes | 35 |
| | Application | Uncontaminated zones |

| | Zones with oils and lubricants Robot Drag chain operation |
|-----------------------|---|
| 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 |
| Overvoltage category | III |

Certificates

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

Dimensional drawing



Dimensions in mm (inch)

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."

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