

YM2A2B-050UD3XLEAX

Sensor/actuator cable

PLUG CONNECTORS AND CABLES





Ordering information

Туре	Part no.
YM2A2B-050UD3XLEAX	6042732

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

Detailed technical data

Technical specifications

Accessory group Accessory family Connection type head A Connection type head B Connection type Flying leads TPU Locking nut material Locking nut material Locking nut material PUR, halogen-free Jacket material PUR, halogen-free Jacket color Black Cable diameter B.5 mm Conductor cross section Shielding Bending radius Flexible use Stationary position Flexible use Stationary position Seference voltage \$\leq 30 \text{ V} Current loading 1.5 \text{ A} Traversing speed 3 m/s Traverling distance Acceleration \$\leq 10 \text{ m/s}^2 Signal type Second Flexible pair Application Pleso/ IP67 Ambient operatting temperature Stationary position Head Flex: 0-10 \text{ m/s} 0-25 \text{ c} +80 \text{ C} -25 \text{ c} +80 \text{ C} -25 \text{ c} +90 \text{ C}	roommour opcomount	
Connection type head A Male connector, M12, 12-pin, straight, A-coded Connection type Flying leads Connector material TPU Locking nut material Zinc die-cast, nickel-plated Cable 5 m, 12-wire, PUR, halogen-free Jacket color Black Cable diameter 8.5 mm Conductor cross section 0.14 mm² Shelding Shelded Bending radius Flexible use Stationary position > 10 x cable diameter Shelding cycles 2.000,000 Reference voltage \$ 30 V Current loading 1.5 A Travesling speed 3 m/s Travelling distance 10 m Acceleration \$ 10 m/s² Signal type Sensor/actuator cable, I/O Special feature Twisted pair Application Drag chain operation Enclosure rating IP65/ IP67 Ambient operating temperature \$ 30 ° C +80 ° C	Accessory group	Plug connectors and cables
Connection type head B Connector material Connector material Cable Dacket material Flying leads Flying leads TPU Locking nut material Zinc die cast, nickel-plated Cable Dacket material PUR, halogen-free Black Cable diameter 8.5 mm Conductor cross section Cable diameter Shielding Shielded Bending radius Flexible use Stationary position Bending cycles Stationary position Fraversing speed Traverling distance Acceleration Signal type Sensor/actuator cable, I/O Special feature Application Enclosure rating IP65/ IP67 Ambient operating temperature Stationary position Flexible use Flexible use Flexible use Stationary position Flexible use Flexible use Signal type Sensor/actuator cable, I/O Special feature Application Flexible use Stationary position -30 °C +80 °C	Accessory family	Connecting cables
Connection type Flying leads Connector material TPU Locking nut material Zinc die-cast, nickel-plated Cable 5 m, 12-wire, PUR, halogen-free Jacket material PUR, halogen-free Jacket color Black Cable diameter 8.5 mm Conductor cross section 0.14 mm² Shielding Shielded Bending radius Flexible use Stationary position Flexible use Stationary position > 10 x cable diameter Sending cycles ≥ 30 V Reference voltage ≤ 30 V Current loading 1.5 A Traversing speed 3 m/s Travelling distance 10 m Acceleration ≤ 10 m/s² Signal type Sensor/actuator cable, I/O Special feature Twisted pair Application Drag chain operation Enclosure rating IP65/ IP67 Ambient operating temperature -30 °C +80 °C	Connection type head A	Male connector, M12, 12-pin, straight, A-coded
Connector material TPU Locking nut material Zinc die-cast, nickel-plated Cable 5 m, 12-wire, PUR, halogen-free Jacket material PUR, halogen-free Jacket color Black Cable diameter 8.5 mm Conductor cross section 0.14 mm² Shielding Shielded Bending radius Flexible use Stationary position Personal position > 10 x cable diameter > 5 x cable diameter > 5 x cable diameter Stationary position ≤ 30 V Current loading 1.5 A Traversing speed 3 m/s Travelling distance 10 m Acceleration ≤ 10 m/s² Signal type Sensor/actuator cable, I/O Special feature Twisted pair Application Drag chain operation Enclosure rating IP65/ IP67 Ambient operating temperature Stationary position	Connection type head B	Flying leads
Lockling nut material Zinc die-cast, nickel-plated Cable 5 m, 12-wire, PUR, halogen-free Jacket material PUR, halogen-free Jacket color Black Cable diameter 8.5 mm Conductor cross section 0.14 mm² Shielding Shielded Bending radius Flexible use Stationary position Flexible use Stationary position > 10 x cable diameter 5 x cable diameter > 5 x cable diameter 2,000,000 Reference voltage ≤ 30 V Current loading 1.5 A Traversing speed 3 m/s Travelling distance 10 m Acceleration ≤ 10 m/s² Signal type Sensor/actuator cable, I/O Special feature Twisted pair Application Drag chain operation Enclosure rating IP65/ IP67 Ambient operating temperature Stationary position -30 °C +80 °C	Connection type	Flying leads
Cable 5 m, 12-wire, PUR, halogen-free Jacket material PUR, halogen-free Jacket color Black Cable diameter 8.5 mm Conductor cross section 0.14 mm² Shielding Shielded Bending radius Flexible use Stationary position > 5 x cable diameter Stationary position > 5 x cable diameter \$ 30 V Current loading 1.5 A Traversing speed 3 m/s Travelling distance 10 m Acceleration ≤ 10 m/s² Signal type Sensor/actuator cable, I/O Special feature Twisted pair Application Drag chain operation Enclosure rating IP65/ IP67 Ambient operating temperature -30 °C +80 °C	Connector material	TPU
Jacket material Jacket color Black Cable diameter 8.5 mm Conductor cross section Shielding Shielded Bending radius Flexible use Stationary position Bending cycles Reference voltage \$\frac{30 \text{ V}}{1.5 \text{ A}}\$ Traversing speed Travelling distance Acceleration \$\frac{5 \text{ In m/s}^2}{5 \text{ sensor/actuator cable, I/O}}\$ Sensor/actuator cable, I/O Special feature Application Enclosure rating Ambient operating temperature Stationary position -30 °C +80 °C	Locking nut material	Zinc die-cast, nickel-plated
Jacket color Black Cable diameter 8.5 mm O.14 mm² Shielding Bending radius Flexible use Stationary position Bending cycles Reference voltage \$ 30 V Current loading Traverling distance Acceleration \$ 1.5 A Travelling distance 4 10 m Acceleration \$ 5 my/s² Signal type Sensor/actuator cable, I/O Special feature Application Enclosure rating Ambient operating temperature Stationary position \$ 30 ° C +80 ° C	Cable	5 m, 12-wire, PUR, halogen-free
Cable diameter Conductor cross section Shielding Bending radius Flexible use Stationary position Bending cycles Current loading Traversing speed Traversing speed Travelling distance Acceleration Signal type Sensor/actuator cable, I/O Special feature Application Enclosure rating Ambient operating temperature Stationary position 0.14 mm² Shielding Shielded Shielded Shielded Shielded Stationary position 5 10 x cable diameter 5 x cable dia	Jacket material	PUR, halogen-free
Conductor cross section 0.14 mm² Shielding Shielded Bending radius > 10 x cable diameter Stationary position > 5 x cable diameter Bending cycles 2,000,000 Reference voltage ≤ 30 V Current loading 1.5 A Traversing speed 3 m/s Travelling distance 10 m Acceleration ≤ 10 m/s² Signal type Sensor/actuator cable, I/O Special feature Twisted pair Application Drag chain operation Enclosure rating IP65/ IP67 Ambient operating temperature -30 °C +80 °C	Jacket color	Black
Shielding Bending radius Flexible use Stationary position Bending cycles Reference voltage \$\leq 30 \text{ V}\$ Current loading 1.5 A Traversing speed \$\leq 30 \text{ m/s}^2 \$\leq 10 \text{ m/s}^2 \$\leq 2000,000 Current loading 1.5 A \$\leq 30 \text{ m/s}^2 \$	Cable diameter	8.5 mm
Bending radius Flexible use Stationary position > 5 x cable diameter Stationary position > 5 x cable diameter Bending cycles 2,000,000 Reference voltage ≤ 30 V Current loading 1.5 A Traversing speed 3 m/s Travelling distance 10 m Acceleration ≤ 10 m/s² Signal type Sensor/actuator cable, I/O Special feature Twisted pair Application Drag chain operation Enclosure rating IP65/ IP67 Ambient operating temperature Stationary position -30 °C +80 °C	Conductor cross section	0.14 mm ²
Flexible use Stationary position Bending cycles Reference voltage \$\leq 30 \text{ V}\$ Current loading Traversing speed \$\leq 10 \text{ m/s}^2 Sensor/actuator cable, I/O Special feature Application Enclosure rating Ambient operating temperature \$\leq 10 \text{ x cable diameter} \\ \$\leq 5 x cable di	Shielding	Shielded
Stationary position > 5 x cable diameter 2,000,000 Reference voltage	Bending radius	
Bending cycles Reference voltage ≤ 30 V Current loading 1.5 A Traversing speed 3 m/s Travelling distance 10 m Acceleration ≤ 10 m/s² Signal type Sensor/actuator cable, I/O Special feature Application Drag chain operation Enclosure rating Ambient operating temperature Stationary position -30 °C +80 °C	Flexible use	> 10 x cable diameter
Reference voltage ≤ 30 V Current loading 1.5 A Traversing speed 3 m/s Travelling distance 10 m Acceleration ≤ 10 m/s² Signal type Sensor/actuator cable, I/O Special feature Application Enclosure rating Ambient operating temperature Stationary position ≤ 30 V 1.5 A 1.5 A 3 m/s 10 m 5 10 m 6 2 5 ensor/actuator cable, I/O Twisted pair Drag chain operation IP65/ IP67 Ambient operating temperature Stationary position -30 °C +80 °C	Stationary position	> 5 x cable diameter
Current loading 1.5 A Traversing speed 3 m/s Travelling distance 10 m Acceleration ≤ 10 m/s² Signal type Sensor/actuator cable, I/O Special feature Twisted pair Application Enclosure rating Ambient operating temperature Stationary position -30 °C +80 °C	Bending cycles	2,000,000
Current loading 1.5 A Traversing speed 3 m/s Travelling distance 10 m Acceleration ≤ 10 m/s² Signal type Sensor/actuator cable, I/O Special feature Twisted pair Application Enclosure rating Ambient operating temperature Stationary position -30 °C +80 °C	Reference voltage	
Traversing speed Travelling distance 10 m Acceleration ≤ 10 m/s² Signal type Sensor/actuator cable, I/0 Special feature Application Enclosure rating Ambient operating temperature Stationary position 3 m/s 10 m Enclosure ration Sensor/actuator cable, I/0 Twisted pair Drag chain operation IP65/ IP67 Ambient operating temperature Stationary position -30 °C +80 °C		≤ 30 V
Travelling distance 10 m Acceleration ≤ 10 m/s² Signal type Sensor/actuator cable, I/O Special feature Twisted pair Application Drag chain operation Enclosure rating IP65/ IP67 Ambient operating temperature Stationary position -30 °C +80 °C	Current loading	1.5 A
Acceleration ≤ 10 m/s² Signal type Sensor/actuator cable, I/O Special feature Twisted pair Application Drag chain operation Enclosure rating IP65/ IP67 Ambient operating temperature Stationary position -30 °C +80 °C	Traversing speed	3 m/s
Signal type Sensor/actuator cable, I/O Twisted pair Application Drag chain operation Enclosure rating Ambient operating temperature Stationary position Stationary position Sensor/actuator cable, I/O Twisted pair Drag chain operation IP65/ IP67 -30 °C +80 °C	Travelling distance	10 m
Special feature Application Drag chain operation Enclosure rating IP65/ IP67 Ambient operating temperature Stationary position -30 °C +80 °C	Acceleration	≤ 10 m/s²
Application Enclosure rating IP65/ IP67 Ambient operating temperature Stationary position Drag chain operation IP65/ IP67 -30 °C +80 °C	Signal type	Sensor/actuator cable, I/O
Enclosure rating IP65/ IP67 Ambient operating temperature Stationary position -30 °C +80 °C	Special feature	Twisted pair
Ambient operating temperature Stationary position -30 °C +80 °C	Application	Drag chain operation
Stationary position -30 °C +80 °C	Enclosure rating	IP65/ IP67
**	Ambient operating temperature	
Head -25 °C +90 °C	Stationary position	-30 °C +80 °C
	Head	-25 °C +90 °C

YM2A2B-050UD3XLEAX | Sensor/actuator cable PLUG CONNECTORS AND CABLES

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

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."

WORLDWIDE PRESENCE:

Contacts and other locations -www.sick.com

