

YF2A24-020UB4XLEAX

Sensor/actuator cable





Ordering information

Туре	Part no.
YF2A24-020UB4XLEAX	2105499

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



Detailed technical data

Technical specifications

Connection type head B Female connector, M12, 4-pin, straight, A-coded Connection type head B Fiying leads Locking plug connector Screw connection Connector material TPU Connector color Black Locking nut material Zinc die-cast, nickel-plated Seal material FKM Uidst across flats 13 Cable 2 m, 4-wire, PUR, halogen-free Jacket material PUR, halogen-free Jacket color Black Cable diameter 5.3 mm Conductor cross section 0.34 mm² Shielding Flexible use > 10 x cable diameter Stationary position > 10 x cable diameter Stationary position > 10 x cable diameter Place of the color 10 x cable diameter Stationary position > 10 x cable diameter Stationary position > 10 x cable diameter Place of the color 10 x cable diameter Stationary position 2 00 x cable diameter Bending cycles 60 V AC Reference voitage 60 V AC		
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 2 m, 4-wire, PUR, halogen-free Jacket material PUR, halogen-free Jacket color Black Cable diameter 5.3 mm Conductor cross section 0.34 mm² Shielded Shielded Bending radius Fleixible use Stationary position Drag chain operation Prag cha	Connection type head A	Female connector, M12, 4-pin, straight, A-coded
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Connector color Locking nut material Seal material FKM Tightening torque 0.6 Nm Width across flats 13 Cable 2 m, 4-wire, PUR, halogen-free Jacket material Jacket color Black Cable diameter Cable diameter Conductor cross section Shielding Bending radius Flexible use Stationary position Drag chain operation Drag chain operation Bending voltage, cable Test voltage, cable Reference voltage 60 V AC 60 V DC Rated impulse voltage Current loading FKM Inickel-plated Inick	Locking plug connector	Screw connection
Locking nut material Zinc die-cast, nickel-plated Seal material FKM Tightening torque 0.6 Nm Width across flats 13 Cable 2 m, 4-wire, PUR, halogen-free Jacket material PUR, halogen-free Jacket color Black Cable diameter 5.3 mm Conductor cross section 0.34 mm² Shielding Shielded Bending radius Flexible use Stationary position Drag chain operation > 10 x cable diameter Drag chain operation > 5 x cable diameter Shoo,000 300 v AC Test voltage, cable 2,000 v AC Reference voltage 60 v AC GO v DC Rated impulse voltage 1.5 kV Current loading 4 A	Connector material	TPU
Seal material FKM Tightening torque 0.6 Nm Width across flats 13 Cable 2 m, 4-wire, PUR, halogen-free Jacket material PUR, halogen-free Jacket color Black Cable diameter 5.3 mm Conductor cross section 0.34 mm² Shielding Shielded Bending radius Flexible use Stationary position Drag chain operation > 10 x cable diameter Drag chain operation > 10 x cable diameter Bending cycles 5,000,000 Nominal voltage, cable 300 V AC Test voltage, cable 2,000 V AC Reference voltage 60 V AC 60 V DC Rated impulse voltage 1.5 kV Current loading 4 A	Connector color	Black
Tightening torque 0.6 Nm Width across flats 13 Cable 2 m, 4-wire, PUR, halogen-free Jacket material PUR, halogen-free Jacket color Black Cable diameter 5.3 mm Conductor cross section 0.34 mm² Shielding Shielded Bending radius Flexible use Stationary position Drag chain operation Drag chain operation > 5 x cable diameter > 10 x cable diameter Soud,000 Nominal voltage, cable 300 V AC Test voltage, cable 2,000 V AC Reference voltage 60 V AC 60 V DC Rated impulse voltage 1.5 kV Current loading 4 A	Locking nut material	Zinc die-cast, nickel-plated
Width across flats 13 Cable 2 m, 4-wire, PUR, halogen-free Jacket material PUR, halogen-free Jacket color Black Cable diameter 5.3 mm Conductor cross section 0.34 mm² Shielding Shielded Bending radius Flexible use Stationary position Drag chain operation > 10 x cable diameter Drag chain operation > 5 x cable diameter Nominal voltage, cable 5,000,000 Nominal voltage, cable 300 V AC Test voltage, cable 2,000 V AC Reference voltage 60 V AC 60 V DC Rated impulse voltage 1.5 kV Current loading 4 A	Seal material	FKM
Cable 2 m, 4-wire, PUR, halogen-free Jacket material PUR, halogen-free Black Cable diameter 5.3 mm Conductor cross section 0.34 mm² Shielding Shielded Flexible use Stationary position Drag chain operation Drag chain operation 2.000 V AC Reference voltage 60 V AC Go V DC Rated impulse voltage 1.5 kV Cable material PUR, halogen-free	Tightening torque	0.6 Nm
Jacket material Jacket color Black Cable diameter 5.3 mm Conductor cross section 0.34 mm² Shielding Bending radius Flexible use Stationary position Drag chain operation Drag chain operation Bending cycles Nominal voltage, cable Test voltage, cable Reference voltage 60 V AC 60 V DC Rated impulse voltage Current loading PUR, halogen-free Black 5.3 mm 0.34 mm² Shielded > 10 x cable diameter > 5 x cable diameter > 10 x cable diameter	Width across flats	13
Jacket color Cable diameter 5.3 mm 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 60 V AC 60 V DC Rated impulse voltage Current loading 4 A	Cable	2 m, 4-wire, PUR, halogen-free
Cable diameter Conductor cross section Shielding Bending radius Flexible use Stationary position Drag chain operation Drag chain operation Solv AC Reference voltage GO V AC Rated impulse voltage Current loading 5.3 mm 0.34 mm² Shielded 5.40 x cable diameter > 5 x cable diameter > 10 x cable diameter	Jacket material	PUR, halogen-free
Conductor cross section Shielding Bending radius Flexible use Stationary position Drag chain operation Nominal voltage, cable Test voltage, cable Reference voltage 60 V AC 60 V DC Rated impulse voltage Current loading 9 Shielded 5 Shielded 5 Shielded 5 10 x cable diameter 5 5 x cable diameter 5 000,000 5 X Cable diameter 5 000,000 6 0 V AC 4 A	Jacket color	Black
Shielding Bending radius Flexible use Stationary position Drag chain operation Drag chain operation Shool,000 Nominal voltage, cable Test voltage, cable Reference voltage 60 V AC 60 V DC Rated impulse voltage Current loading Shielded > 10 x cable diameter > 5 x cable diameter > 10 x cable diamet	Cable diameter	5.3 mm
Bending radius Flexible use Stationary position Drag chain operation Drag chain operation Sending cycles Nominal voltage, cable Test voltage, cable Reference voltage 60 V AC 60 V DC Rated impulse voltage 1.5 kV Current loading Plexible use > 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 d	Conductor cross section	0.34 mm ²
Flexible use Stationary position Drag chain operation Drag chain operation Drag chain operation Source Sou	Shielding	Shielded
Stationary position Drag chain operation Bending cycles Nominal voltage, cable Test voltage, cable Reference voltage 60 V AC 60 V DC Rated impulse voltage Current loading > 5 x cable diameter > 10 x cable diameter 5,000,000 300 V AC 2,000 V AC 60 V AC 60 V DC 4 A	Bending radius	
Drag chain operation > 10 x cable diameter 5,000,000 Nominal voltage, cable 300 V AC Test voltage, cable 2,000 V AC Reference voltage 60 V AC 60 V DC Rated impulse voltage 1.5 kV Current loading 4 A	Flexible use	> 10 x cable diameter
Bending cycles 5,000,000 Nominal voltage, cable 300 V AC Test voltage, cable 2,000 V AC Reference voltage 60 V AC 60 V DC 60 V DC Rated impulse voltage 1.5 kV Current loading 4 A	Stationary position	> 5 x cable diameter
Nominal voltage, cable 300 V AC Test voltage, cable 2,000 V AC Reference voltage 60 V AC 60 V DC 60 V DC Rated impulse voltage 1.5 kV Current loading 4 A	Drag chain operation	> 10 x cable diameter
Test voltage, cable 2,000 V AC Reference voltage 60 V AC 60 V DC Rated impulse voltage 1.5 kV Current loading 4 A	Bending cycles	5,000,000
Reference voltage 60 V AC 60 V DC Rated impulse voltage 1.5 kV Current loading 4 A	Nominal voltage, cable	300 V AC
60 V AC 60 V DC Rated impulse voltage 1.5 kV Current loading 4 A	Test voltage, cable	2,000 V AC
Rated impulse voltage 1.5 kV Current loading 4 A	Reference voltage	
Rated impulse voltage 1.5 kV Current loading 4 A		60 V AC
Current loading 4 A		60 V DC
	Rated impulse voltage	1.5 kV
Traversing speed 3.3 m/s	Current loading	4 A
	Traversing speed	3.3 m/s

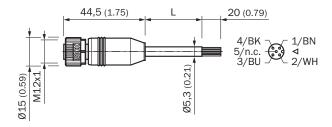
Travelling distance 5 m Acceleration ≤ 5 m/s² Signal type Sensor/actuator cable Torsion force 30° / 1 m Torsion cycles 2,000,000 Cycles per minutes 35 Application Uncontaminated zones Zones with oils and lubricants Robot Drag chain operation Authorizations CE UL UL UL File No. E335179 Enclosure rating IP65 / IP66K / IP67 Operating temperature Flexible use Stationary position -25 °C +80 °C Application -25 °C +80 °C
Signal type Sensor/actuator cable Torsion force 30° / 1 m 2,000,000 Cycles per minutes Application Uncontaminated zones Zones with oils and lubricants Robot Drag chain operation Authorizations CE UL UL File No. Enclosure rating Plessible use Stationary position Stationary position Sensor/actuator cable Authorizations Uncontaminated zones Zones with oils and lubricants Robot Drag chain operation CE UL -25 °C +80 °C -40 °C +80 °C
Torsion force 30° / 1 m Torsion cycles 2,000,000 Cycles per minutes 35 Application Uncontaminated zones Zones with oils and lubricants Robot Drag chain operation Authorizations CE UL UL File No. E335179 Enclosure rating IP65 / IP66K / IP67 Operating temperature Flexible use -25 °C +80 °C -40 °C +80 °C -40 °C +80 °C
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Cycles per minutes Application Uncontaminated zones Zones with oils and lubricants Robot Drag chain operation CE UL UL File No. E335179 Enclosure rating Operating temperature Flexible use Stationary position 35 Uncontaminated zones Zones with oils and lubricants Robot Drag chain operation CE UL UL Flexible use -25 °C +80 °C -40 °C +80 °C
Application Uncontaminated zones Zones with oils and lubricants Robot Drag chain operation CE UL UL File No. Enclosure rating Operating temperature Flexible use Stationary position Uncontaminated zones Zones with oils and lubricants Robot Drag chain operation CE UL UL Endows Price No. E335179 IP65 / IP66K / IP67 Operating temperature Flexible use -25 °C +80 °C -40 °C +80 °C
Zones with oils and lubricants Robot Drag chain operation Authorizations CE UL UL File No. Enclosure rating IP65 / IP66K / IP67 Operating temperature Flexible use Stationary position Flexible use -25 °C +80 °C -40 °C +80 °C
UL UL File No. E335179 Enclosure rating IP65 / IP66K / IP67 Operating temperature Flexible use -25 °C +80 °C Stationary position -40 °C +80 °C
Enclosure rating Operating temperature Flexible use -25 °C +80 °C Stationary position -40 °C +80 °C
Operating temperature Flexible use -25 °C +80 °C Stationary position -40 °C +80 °C
Flexible use -25 °C +80 °C Stationary position -40 °C +80 °C
Stationary position -40 °C +80 °C
Drag shain quanties QF °C 190 °C
Drag chain operation -25 °C +80 °C
Head -25 °C +85 °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 Section 1090 (H), CSA FT2 / 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

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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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