

YF2A14-022UB3M2A14

Sensor/actuator cable

PLUG CONNECTORS AND CABLES





Ordering information

Туре	Part no.
YF2A14-022UB3M2A14	2126063

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



Detailed technical data

Technical specifications

Accessory group Plug connectors and cables Accessory family Connection cables Connection type head B Male connector, M12, 4-pin, straight, A-coded Locking plug connector Screw connection Connector color Black Locking nut material TPU Connector color Black Locking nut material FKM Tightening torque 0.6 Nm Width across flats 13 Cable 2.2 m, 4-wire, PUR, halogen-free Jacket material PUR, halogen-free Jacket color Black Cable diameter 4.5 mm Conductor cross section 0.34 mm² Shielding Unshielded Bending radius Flexible use > 10 x cable diameter Stationary position poration > 5 x cable diameter Place ovoltage ≤ 250 V AC/DC Reference voltage ≤ 250 V AC/DC Rated impulse voltage ≤ 4 A Traversing speed 3 m/s Travesling distance 10 m Acceleration ≤ 10 m/s² <th>reeminear epeemiearieme</th> <th></th>	reeminear epeemiearieme	
Connection type head A Female connector, M12, 4-pin, straight, 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 Zind die-cast, nickel-plated Seal material FKM Width across flats 13 Cable 2.2 m, 4-wire, PUR, halogen-free Jacket material PUR, halogen-free Jacket color Black Cable diameter 4.5 mm Conductor cross section 0.34 mm² Shielding Unshielded Bending radius Flexible use Stationary position > 5 x cable diameter Stationary position > 10 x cable diameter > 10 x cable diameter In x cable diameter > 10 x cable diameter Reference voltage ≤ 250 V AC/DC Rated impulse voltage 2.5 kV Current loading 4 A Travesling speed 3 m/s Travelling distance 10 m/s²	Accessory group	Plug connectors and cables
Connection type head B Male connector, M1.2, 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 0.6 Nm Width across flats 13 Cable 2.2 m, 4-wire, PUR, halogen-free Jacket material PUR, halogen-free Jacket color Black Cable diameter 4.5 mm Conductor cross section 0.34 mm² Shielding Unshielded Bending radius Flexible use Stationary position Drag chain operation > 10 x cable diameter So x cable diameter > 10 x cable diameter > 10 x cable diameter > 10 x cable diameter So x cable diameter > 25 x cable diameter So x cable diameter > 10 x cable diameter So x cable diameter > 10 x cable diameter So x cable diameter > 10 x cable diameter So x cable diameter > 10 x cable diameter So x cable dia	Accessory family	Connection cables
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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 2.2 m, 4-wire, PUR, halogen-free Jacket material PUR, halogen-free Jacket color Black Cable diameter 4.5 mm Conductor cross section 0.34 mm² Shielding Unshielded Bending radius Flexible use Flexible use > 10 x cable diameter > 5 x cable diameter > 5 x cable diameter Drag chain operation > 10 x cable diameter Secondary position > 10 x cable diameter Secondary position > 25 x cable diameter Secondary position > 10 x cable diameter Secondary position > 25 x v Ac/DC Reference voltage ≤ 250 v Ac/D	Connection type head B	Male connector, M12, 4-pin, straight, A-coded
Connector color Black Locking nut material Zinc die-cast, nickel-plated Seal material FKM Tightening torque 0.6 Nm Width across flats 13 Cable 2.2 m, 4-wire, PUR, halogen-free Jacket material PUR, halogen-free Jacket color Black Cable diameter 4.5 mm Conductor cross section 0.34 mm² Shielding Unshielded Bending radius Flexible use Stationary position Drag chain operation > 5 x cable diameter Stationary position Drag chain operation > 10 x cable diameter Seeference voltage ≤ 250 ∨ AC/DC Rated impulse voltage ≤ 2.5 kV Current loading ≤ 4 A Traversing speed 3 m/s Travelling distance 10 m Acceleration ≤ 10 m/s²	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 2.2 m, 4-wire, PUR, halogen-free Jacket material PUR, halogen-free Jacket color Black Cable diameter 4.5 mm Conductor cross section 0.34 mm² Shielding Unshielded Bending radius > 10 x cable diameter Flexible use > 5 x cable diameter Stationary position > 10 x cable diameter Drag chain operation > 10 x cable diameter Bending cycles 10 x cable diameter Reference voltage ≤ 250 V AC/DC Rated impulse voltage ≤ 250 V AC/DC Current loading ≤ 4 A Traversing speed 3 m/s Travelling distance 40 m Acceleration ≤ 10 m/s²	Connector material	TPU
Seal material FKM Tightening torque 0.6 Nm Width across flats 13 Cable 2.2 m, 4-wire, PUR, halogen-free Jacket material PUR, halogen-free Jacket color Black Cable diameter 4.5 mm Conductor cross section 0.34 mm² Shielding Unshielded Bending radius > 10 x cable diameter Stationary position > 5 x cable diameter Drag chain operation > 10 x cable diameter Bending cycles 10,000,000 Reference voltage ≤ 250 V AC/DC Rated impulse voltage ≤ 2.5 kV Current loading ≤ 4 A Traversing speed 3 m/s Travelling distance 10 m Acceleration ≤ 10 m/s²	Connector color	Black
Tightening torque 0.6 Nm Width across flats 13 Cable 2.2 m, 4-wire, PUR, halogen-free Jacket material PUR, halogen-free Jacket color Black Cable diameter 4.5 mm Conductor cross section 0.34 mm² Shielding Unshielded Bending radius > 10 x cable diameter Stationary position > 5 x cable diameter Drag chain operation > 10 x cable diameter Bending cycles 10,000,000 Reference voltage ≤ 250 V AC/DC Rated impulse voltage 2.5 kV Current loading ≤ 4 A Traversing speed 3 m/s Travelling distance 10 m Acceleration ≤ 10 m/s²	Locking nut material	Zinc die-cast, nickel-plated
Width across flats 13 Cable 2.2 m, 4-wire, PUR, halogen-free Jacket material PUR, halogen-free Jacket color Black Cable diameter 4.5 mm Conductor cross section 0.34 mm² Shelding Unshielded Bending radius Flexible use Stationary position Paragchain operation > 10 x cable diameter Stationary position Paragchain operation > 10 x cable diameter Sending cycles 10,000,000 Reference voltage ≤ 250 V AC/DC Rated impulse voltage ≤ 4 A Current loading ≤ 4 A Traversing speed 3 m/s Travelling distance 10 m Acceleration ≤ 10 m/s²	Seal material	FKM
Cable 2.2 m, 4-wire, PUR, halogen-free Jacket material PUR, halogen-free Jacket color Black Cable diameter 4.5 mm Conductor cross section 0.34 mm² Shielding Unshielded Bending radius > 10 x cable diameter Stationary position > 5 x cable diameter Drag chain operation > 10 x cable diameter 10,000,000 10,000,000 Reference voltage ≤ 250 V AC/DC Rated impulse voltage ≤ 2.5 kV Current loading ≤ 4 A Traversing speed 3 m/s Travelling distance 10 m Acceleration ≤ 10 m/s²	Tightening torque	0.6 Nm
Jacket material PUR, halogen-free Jacket color Black Cable diameter 4.5 mm Conductor cross section 0.34 mm² Shielding Unshielded Bending radius > 10 x cable diameter Stationary position Drag chain operation > 5 x cable diameter Drag chain operation > 10 x cable diameter Bending cycles 10,000,000 Reference voltage ≤ 250 V AC/DC Rated impulse voltage 2.5 kV Current loading ≤ 4 A Traversing speed 3 m/s Travelling distance 10 m Acceleration ≤ 10 m/s²	Width across flats	13
Jacket color Black Cable diameter 4.5 mm Conductor cross section 0.34 mm² Shielding Unshielded Bending radius Flexible use Stationary position Pag chain operation > 10 x cable diameter Drag chain operation > 10 x cable diameter Bending cycles 10,000,000 Reference voltage ≤ 250 V AC/DC Rated impulse voltage ≤ 2.5 kV Current loading ≤ 4 A Traversing speed 3 m/s Travelling distance 10 m Acceleration ≤ 10 m/s²	Cable	2.2 m, 4-wire, PUR, halogen-free
Cable diameter 4.5 mm Conductor cross section 0.34 mm² Shielding Unshielded Bending radius > 10 x cable diameter Stationary position > 5 x cable diameter Drag chain operation > 10 x cable diameter 10,000,000 Reference voltage ≤ 250 V AC/DC Rated impulse voltage ≤ 2.5 kV Current loading ≤ 4 A Traversing speed 3 m/s Travelling distance 10 m Acceleration ≤ 10 m/s²	Jacket material	PUR, halogen-free
Conductor cross section 0.34 mm² Shielding Unshielded Bending radius > 10 x cable diameter Stationary position > 5 x cable diameter Drag chain operation > 10 x cable diameter Bending cycles 10,000,000 Reference voltage ≤ 250 V AC/DC Rated impulse voltage 2.5 kV Current loading ≤ 4 A Traversing speed 3 m/s Travelling distance 10 m Acceleration ≤ 10 m/s²	Jacket color	Black
Shielding Unshielded Bending radius > 10 x cable diameter Stationary position Drag chain operation > 5 x cable diameter Bending cycles 10,000,000 Reference voltage ≤ 250 V AC/DC Rated impulse voltage ≤ 2.5 kV Current loading ≤ 4 A Traversing speed 3 m/s Travelling distance 10 m Acceleration ≤ 10 m/s²	Cable diameter	4.5 mm
Flexible use Stationary position Drag chain operation Bending cycles Reference voltage Current loading Traversing speed Travelling distance Acceleration Flexible use > 10 x cable diameter > 5 x cable diameter > 10 x cable diameter 10,000,000 2 5 x cable diameter 10,000,000 2 5 x cable diameter 2000,000 2 5 x cable diameter 2000,000 3 x cable diameter 2000,000 4 x cable diameter 2000,000 5 x cable diameter 2000,000 6 x cable diameter 20	Conductor cross section	0.34 mm ²
Flexible use Stationary position Drag chain operation Bending cycles Reference voltage ≤ 250 V AC/DC Rated impulse voltage Current loading Traversing speed Travelling distance Acceleration > 10 x cable diameter > 5 x cable diameter > 10,000,000 2 25 V AC/DC 2 5 kV 4 A 3 m/s 10 m ≤ 10 m/s²	Shielding	Unshielded
Stationary position Drag chain operation Bending cycles Reference voltage ≤ 250 V AC/DC Rated impulse voltage Current loading Traversing speed Travelling distance Acceleration > 5 x cable diameter > 10,000,000 > 25 x cable diameter 10,000,000	Bending radius	
Drag chain operation > 10 x cable diameter Bending cycles 10,000,000 Reference voltage ≤ 250 V AC/DC Rated impulse voltage 2.5 kV Current loading ≤ 4 A Traversing speed 3 m/s Travelling distance 10 m Acceleration ≤ 10 m/s²	Flexible use	> 10 x cable diameter
Bending cycles 10,000,000 Reference voltage ≤ 250 V AC/DC Rated impulse voltage 2.5 kV Current loading ≤ 4 A Traversing speed 3 m/s Travelling distance 10 m Acceleration ≤ 10 m/s²	Stationary position	> 5 x cable diameter
Reference voltage ≤ 250 V AC/DC Rated impulse voltage 2.5 kV Current loading ≤ 4 A Traversing speed 3 m/s Travelling distance 10 m Acceleration ≤ 10 m/s²	Drag chain operation	> 10 x cable diameter
$ \le 250 \text{V AC/DC} $ Rated impulse voltage $ 2.5 \text{kV} $ Current loading $ \le 4 \text{A} $ Traversing speed $ 3 \text{m/s} $ Travelling distance $ 10 \text{m} $ Acceleration $ \le 10 \text{m/s}^2 $	Bending cycles	10,000,000
Rated impulse voltage 2.5 kV Current loading≤ 4 ATraversing speed 3 m/s Travelling distance 10 m Acceleration≤ 10 m/s^2	Reference voltage	
Current loading $\leq 4 \text{ A}$ Traversing speed 3 m/s Travelling distance 10 m Acceleration $\leq 10 \text{ m/s}^2$		≤ 250 V AC/DC
Traversing speed 3 m/s Travelling distance 10 m Acceleration ≤ 10 m/s²		2.5 kV
Travelling distance 10 m Acceleration ≤ 10 m/s²	_	≤ 4 A
Acceleration ≤ 10 m/s²	Traversing speed	
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Signal type Sensor/actuator cable		i de la companya de
	Signal type	Sensor/actuator cable

Torsion force	180°/1m
Torsion cycles	2,000,000
Cycles per minutes	35
Application	Zones with oils and lubricants Drag chain operation Robot
Authorizations	CE UL
UL File No.	E335179
Enclosure rating	IP65 / IP66K / IP67
Ambient 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 ΜΩ
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

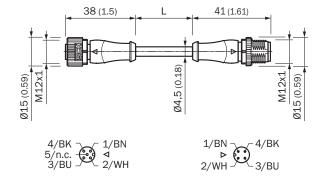
Classifications

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

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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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