

YF2A14-100UB3XLEAX

Sensor/actuator cable

PLUG CONNECTORS AND CABLES





Ordering information

Туре	Part no.
YF2A14-100UB3XLEAX	2095609

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



Detailed technical data

Technical specifications

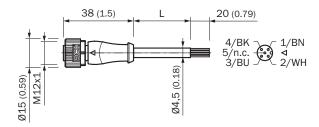
Connection type head B Female connector, M12, 4-pin, straight, A-coded Connection type head B Flying leads Locking plug connector Screw connection Connector material TPU Connector color Black Locking nut material Zinc die-cast, nickel-plated Seal material FKM Width across flats 13 Cable 10 m, 4-wire, PUR, halogen-free Jacket material PUR, halogen-free Jacket color Black Cable diameter 4.5 mm Conductor cross section 0.34 mm² Shielding Plexible use, Stationary position Drag chain operation > 10 x cable diameter Stationary position Drag chain operation > 10 x cable diameter Status voltage, cable 3.00 x 000 Nominal voltage, cable 3.00 x 000 Reference voltage 250 v AC 250 v DC Rated impulse voltage 2.5 kV Current loading 4 A Taversing speed 3 m/s		
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 10 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 > 10 x cable diameter Flexible use Stationary position Drag chain operation Drag chain operation Parage chain operation Stationary position Stationary position Parage, cable > 10 x cable diameter Bending cycles 1,0,000,000 Nominal voltage, cable 300 V AC Test voltage, cable 2,500 V AC Reference voltage 250 V AC 250 V DC Rated impulse voltage 2,5 kV Current loading 4 A	Connection type head A	Female 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 10 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 Paragchain operation Paragchain operation Paragchain operation Paragchain operation Stationary position Paragchain operation Paragchain operation Stationary Paragchain operation Paragchain operation Stationary Paragchain operation Paragchain operation Stationary Paragchain operation Paragchain	Connection type head B	Flying leads
Connector color Black Locking nut material Zinc die-cast, nickel-plated Seal material FKM Tightening torque 0.6 Nm Width across flats 13 Cable 10 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 Drag chain operation > 5 x cable diameter Polymore 10,000,000 Nominal voltage, cable 300 V AC Test voltage, cable 2,500 V AC Reference voltage 250 V AC 250 V DC Rated impulse voltage 2.5 kV Current loading 4 A	Locking plug connector	Screw connection
Locking nut material Seal material FKM Tightening torque 0.6 Nm Width across flats 13 Cable 10 m, 4-wire, PUR, halogen-free Jacket material Jacket color Black Cable diameter Conductor cross section Shielding Bending radius Flexible use Stationary position Drag chain operation Drag chain operation Shoulage, cable 10,000,000 Nominal voltage, cable Reference voltage 250 V AC Rated impulse voltage Current loading FKM 0.6 Nm 13 Cable 10 m, 4-wire, PUR, halogen-free Black 4.5 mm 0.34 mm² Unshielded Unshielded Unshielded Unshielded Vable diameter > 5 x cable diameter > 10 x cable diameter > 10 x cable diameter > 10 x cable diameter	Connector material	TPU
Seal material FKM Tightening torque 0.6 Nm Width across flats 13 Cable 10 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 Drag chain operation > 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 250 V AC 250 V DC Rated impulse voltage 2,5 kV Current loading 4 A	Connector color	Black
Tightening torque 0.6 Nm Width across flats 13 Cable 10 m, 4-wire, PUR, halogen-free Jacket material PUR, halogen-free Black PUR, halogen-free 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 Nominal voltage, cable 300 V AC Test voltage, cable 2,500 V AC Reference voltage 250 V AC 250 V DC 2.5 kV Current loading 4 A	Locking nut material	Zinc die-cast, nickel-plated
Width across flats 13 Cable 10 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 Drag chain operation > 10 x cable diameter Nominal voltage, cable 10,000,000 Reference voltage 250 V AC 250 V DC 250 V DC Rated impulse voltage 2.5 kV Current loading 4 A	Seal material	FKM
Cable 10 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 Paragchain operation Par	Tightening torque	0.6 Nm
Jacket color Black Cable diameter 4.5 mm Conductor cross section O.34 mm² Shielding Bending radius Flexible use Stationary position Drag chain operation Drag chain operation Services Nominal voltage, cable Test voltage 250 V AC 250 V DC Rated impulse voltage Current loading PUR, halogen-free Black 4.5 mm 0.34 mm² Unshielded Unshielded 10,34 mm² 10 x cable diameter > 5 x cable diameter > 10 x cable diam	Width across flats	13
Jacket color Cable diameter 4.5 mm Conductor cross section 0.34 mm² Unshielded Bending radius Flexible use Stationary position Drag chain operation Drag chain operation Bending cycles 10,000,000 Nominal voltage, cable Test voltage, cable Reference voltage 250 V AC 250 V DC Rated impulse voltage Current loading Black 4.5 mm	Cable	10 m, 4-wire, PUR, halogen-free
Cable diameter Conductor cross section Shielding Bending radius Flexible use Stationary position Drag chain operation Pending cycles Nominal voltage, cable Reference voltage 250 V AC 250 V DC Rated impulse voltage Current loading 4.5 mm 0.34 mm² Unshielded 10,04 cable diameter > 5 x cable diameter > 10 x cable diameter > 25 x cable diameter > 10 x cable diameter > 10 x cable diameter > 250 V AC 250 V DC Rated impulse voltage 4 A	Jacket material	PUR, halogen-free
Conductor cross section Shielding Bending radius Flexible use	Jacket color	Black
Shielding Bending radius Flexible use Stationary position Drag chain operation Drag chain operation Showninal voltage, cable Test voltage, cable Reference voltage 250 V AC 250 V DC Rated impulse voltage Current loading Unshielded > 10 x cable diameter > 5 x cable diameter > 10 x cable diameter > 25 x cable diameter	Cable diameter	4.5 mm
Bending radius Flexible use Stationary position Drag chain operation Drag chain operation Bending cycles 10,000,000 Nominal voltage, cable Test voltage, cable 2,500 V AC Reference voltage 250 V AC 250 V DC Rated impulse voltage 2.5 kV Current loading 4 A	Conductor cross section	0.34 mm ²
Flexible use Stationary position Drag chain operation Bending cycles 10,000,000 Nominal voltage, cable Test voltage, cable 2,500 V AC Reference voltage 250 V DC Rated impulse voltage Current loading > 10 x cable diameter > 5 x cable diameter > 10,000,000 300 V AC 2,500 V AC 2,500 V AC 250 V DC 4 A	Shielding	Unshielded
Stationary position Drag chain operation Drag chain	Bending radius	
Drag chain operation > 10 x cable diameter 10,000,000 Nominal voltage, cable 300 V AC Test voltage, cable 2,500 V AC Reference voltage 250 V AC Rated impulse voltage 2.5 kV Current loading 4 A	Flexible use	> 10 x cable diameter
Bending cycles	Stationary position	> 5 x cable diameter
Nominal voltage, cable Test voltage, cable 2,500 V AC Reference voltage 250 V AC 250 V DC Rated impulse voltage 2.5 kV Current loading 300 V AC 2,500 V AC 4 A	Drag chain operation	> 10 x cable diameter
Test voltage, cable Reference voltage 250 V AC 250 V DC Rated impulse voltage 2.5 kV Current loading 4 A	Bending cycles	10,000,000
Reference voltage 250 V AC 250 V DC Rated impulse voltage 2.5 kV Current loading 4 A	Nominal voltage, cable	300 V AC
250 V AC 250 V DC Rated impulse voltage 2.5 kV Current loading 4 A	Test voltage, cable	2,500 V AC
250 V DC Rated impulse voltage 2.5 kV Current loading 4 A	Reference voltage	
Rated impulse voltage 2.5 kV Current loading 4 A		250 V AC
Current loading 4 A		250 V DC
	Rated impulse voltage	2.5 kV
Traversing speed 3 m/s	Current loading	4 A
	Traversing speed	3 m/s

Travelling distance	10 m
Acceleration	≤ 10 m/s²
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
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

Dimensional drawing (Dimensions in mm (inch))



Recommended accessories

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

	Brief description	Туре	Part no.		
Other mounting accessories					
	1 piece, M12 mounting key set for SW13 with calibrated torque 0.6 Nm	T00L-TW06M12AF13	5337208		
Plug connectors and cables					
	Connection type head A: Female connector, M12, 5-pin, straight Description: Unshielded, Head A: female connector, M12, 5-pin, straight, unshielded, for cable diameter 4 mm 6 mm Head B: - Connection systems: Screw-type terminals Permitted cross-section: ≤ 0.75 mm²	DOS-1205-G	6009719		
	 Connection type head A: Male connector, M12, 5-pin, straight Description: Unshielded, Head A: male connector, M12, 5-pin, straight, unshielded, for cable diameter 4 mm 6 mm Head B: - Connection systems: Screw-type terminals Permitted cross-section: ≤ 0.75 mm² Note: For field bus technology 	STE-1205-G	6022083		

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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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