

YF2A14-050UB3XLEAX





Ordering information

Туре	Part no.
YF2A14-050UB3XLEAX	2095608

Other models and accessories → www.sick.com/



Detailed technical data

Technical specifications

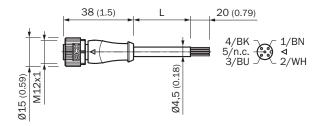
Accessory group Plug connectors and cables Connection type head A Female connector, M12, 4-pin, straight, A-coded Connection type head B Flying leads Locking plug connector Screw connection Connector material TPU Connector color Black Locking nut material Zinc die-cast, nickel-plated Seal material FKM Tightening torque 0.6 Nm Width across flats 13 Cable 5 m, 4-wire, 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 > 10 x cable diameter S x cable diameter > 5 x cable diameter S To cable diameter > 10 x cable diameter S x cable diameter > 10 x cable diameter S x cable diameter > 2 x cable diameter S x cable diameter > 10 x cable diameter S x cable diameter > 10 x cable diameter S x cable diameter		
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 Tightening torque 0.6 Nm Width across flats 13 Cable 5 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 > 5 x cable diameter Drag chain operation > 10 x cable diameter Bendling cycles 10,000,000 Nominal voltage, cable 2,500 V AC Test voltage, cable 250 V DC	Accessory group	Plug connectors and cables
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 Tightening torque 0.6 Nm Width across flats 13 Cable 5 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 V10 x cable diameter > 10,000,000 Nominal voltage, cable 2,500 V AC Reference voltage 250 V AC 250 V AC 250 V AC 250 V DC	Accessory family	Connecting cables
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 5 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 Sending 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	Connection type head A	Female connector, M12, 4-pin, straight, A-coded
Connector material Connector color Locking nut material Seal material FKM Tightening torque Width across flats 13 Cable Jacket material 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 Bending cycles Nominal voltage, cable Test voltage, cable Reference voltage TPU Black Jinc die-cast, nickel-plated Sinck Linck PKM Jinck PHM, Malogen-free Black 4,5 mm 0,34 mm² Unshielded Unshielded Unshielded **Stationary position** **Drag chain operation** **Drag chain operation** **Stationary position** **Drag chain operation** **Drag chain operation** **Stationary position** **Drag chain operation** **Stationary position** **Drag chain operation** **Stationary position** **Drag chain operation** **Drag chain op	Connection type head B	Flying leads
Connector color Locking nut material Seal material FKM Tightening torque Width across flats Cable 5 m, 4-wire, PUR, halogen-free Jacket material Jacket color Cable diameter Conductor cross-section Shielding Bending radius Flexible use Stationary position Drag chain operation Drag chain operation Reference voltage Eference voltage 250 V AC 250 V DC FKM A.S mm C.6 Nm C.6 Nm A.9 wire, PUR, halogen-free Black FLexible use, A.9 wire, PUR, halogen-free Jacket color Black A.5 mm C.34 mm² Unshielded Stationary position Drag chain operation Drag chain operation So x cable diameter > 10 x cable diameter > 10 x cable diameter > 250 V AC 250 V DC	Locking plug connector	Screw connection
Locking nut material Seal material FKM Tightening torque 0.6 Nm Width across flats 13 Cable 5 m, 4-wire, PUR, halogen-free PUR, halogen-free PUR, halogen-free Black Cable diameter 4.5 mm Conductor cross-section 0.34 mm² Shielding Bending radius Flexible use Stationary position Drag chain operation Drag chain operation Prast voltage, cable Reference voltage 250 V AC 250 V DC	Connector material	TPU
Seal material FKM Tightening torque 0.6 Nm Width across flats 13 Cable 5 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 Stationary position Drag chain operation > 10 x cable diameter > 5 x cable diameter > 10 x cable diameter Nominal voltage, cable 10,000,000 Reference voltage 250 V AC 250 V AC 250 V DC	Connector color	Black
Tightening torque Width across flats 13 Cable 5 m, 4-wire, PUR, halogen-free Jacket material Jacket color Black 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 vycles Nominal voltage, cable Test voltage, cable Reference voltage 250 V AC 250 V DC	Locking nut material	Zinc die-cast, nickel-plated
Width across flats Cable 5 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 Flexible use Stationary position Drag chain operation Drag chain operation Bending cycles 10,000,000 Nominal voltage, cable 300 V AC Test voltage, cable 250 V AC Reference voltage 250 V AC 250 V DC	Seal material	FKM
Cable Jacket material PUR, halogen-free PUR, halogen-free Black Cable diameter 4.5 mm Conductor cross-section Shielding Unshielded Flexible use Stationary position Drag chain operation Drag chain operation Bending cycles Nominal voltage, cable Test voltage, cable Reference voltage 250 V AC 250 V DC	Tightening torque	0.6 Nm
Jacket material Jacket color Black Cable diameter 4.5 mm Conductor cross-section Shielding Bending radius Flexible use Stationary position Drag chain operation Bending cycles Nominal voltage, cable Test voltage, cable Reference voltage 250 V AC 250 V DC	Width across flats	13
Jacket color Cable diameter 4.5 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 250 V AC 250 V DC	Cable	5 m, 4-wire, PUR, halogen-free
Cable diameter Conductor cross-section Shielding Unshielded Bending radius Flexible use Stationary position Drag chain operation Drag chain operation Personal voltage, cable Test voltage, cable Reference voltage 250 V AC 250 V DC	Jacket material	PUR, halogen-free
Conductor cross-section Shielding Bending radius Flexible use Stationary position Drag chain operation Drag chain operation Provided Drag chain operation Stationary position Drag chain operation Drag chain operation Provided Drag chain operation Stationary position Drag chain operation Stationary position Drag chain operation A cable diameter 10,000,000 Nominal voltage, cable Test voltage, cable 2,500 V AC 250 V AC 250 V DC	Jacket color	Black
Shielding Bending radius Flexible use Stationary position Drag chain operation Drag chain operation Pending cycles Nominal voltage, cable Test voltage, cable Reference voltage 250 V AC 250 V DC	Cable diameter	4.5 mm
Bending radius Flexible use Stationary position Drag chain operation Bending cycles Nominal voltage, cable Test voltage, cable Reference voltage 250 V AC 250 V DC	Conductor cross-section	0.34 mm ²
Flexible use Stationary position Drag chain operation Bending cycles 10,000,000 Nominal voltage, cable 2,500 V AC Reference voltage 250 V DC	Shielding	Unshielded
Stationary position Drag chain operation Drag chain operation Drag chain operation 10,000,000 Nominal voltage, cable 2,500 V AC Reference voltage 250 V AC 250 V DC	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 250 V DC	Flexible use	> 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 250 V DC	Stationary position	> 5 x cable diameter
Nominal voltage, cable Test voltage, cable 2,500 V AC Reference voltage 250 V AC 250 V DC	Drag chain operation	> 10 x cable diameter
Test voltage, cable Reference voltage 2,500 V AC 250 V AC 250 V DC	Bending cycles	10,000,000
Reference voltage 250 V AC 250 V DC	Nominal voltage, cable	300 V AC
250 V AC 250 V DC	Test voltage, cable	2,500 V AC
250 V DC	Reference voltage	
		250 V AC
Rated impulse voltage 2.5 kV		250 V DC
	Rated impulse voltage	2.5 kV

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° / 1 m
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

ECI@ss 5.0	19030312
ECI@ss 5.1.4	19030312
ECI@ss 6.0	27060304
ECI@ss 6.2	27060304
ECI@ss 7.0	27060304
ECI@ss 8.0	27060304
ECI@ss 8.1	27060304
ECI@ss 9.0	27060304
ECI@ss 10.0	27060304
ECI@ss 11.0	27060304
ECI@ss 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))



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For us, that is "Sensor Intelligence."

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