

YF2A13-020UB1XLEAX





Ordering information

Туре	Part no.
YF2A13-020UB1XLEAX	2095604

Other models and accessories → www.sick.com/



Detailed technical data

Technical specifications

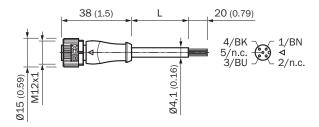
Accessory group Plug connectors and cables Accessory family Connecting cables Connection type head B Fiving leads Locking plug connector Screw connection Connector material TPU Connector color Black Locking nut material Zinc die-cast, nickel-plated Seal material FKM Tightening torque 0.6 Nm Width across flats 13 Cable 2 m. 3-wire, PUR, halogen-free Jacket material PUR, halogen-free Jacket color Black Cable diameter 4.1 mm Conductor cross-section 0.34 mm² Shielding Unshielded Bending radius Flexible use Stationary position Porag chain operation Porag chain operation Porag chain operation > 10 x cable diameter Sending cycles 1.00 x colle diameter Reference voltage 2.5 kV Current loading 4 A Traversing speed 3 m/s Traverling distance 1.0 m/s²		
Connection type head A Connection type head B Locking plug connector Screw connection Connector material TPU Connector color Black Locking nut material Seal material FKM Tightening torque 0.6 Nm Width across flats 13 Cable 2 m, 3-wire, PUR, halogen-free Jacket material PUR, halogen-free Black Cable diameter 4.1 mm Conductor cross-section Shielding Bending radius Fiexble use Stationary position Drag chain operation Drag chain operation Bending cycles Reference voltage Reference voltage Rate in a sum of the sum o	Accessory group	Plug connectors and cables
Connection type head B Locking plug connector Connector material Connector color Locking nut material Seal material FKM Tightening torque Width across flats Cable 2 m, 3-wire, PUR, halogen-free Jacket tasterial Jacket color Cable diameter Conductor cross-section Shielding Bending radius Flexible use Stationary position Drag chain operation Bending cycles Reference voltage Reference voltage Rated impulse voltage Cunned to diameter 2 flying leads Screw connection Slack Locking plug connector Slack Stationary position Drag chain operation 2 flexible use Stationary position Drag chain operation Server connection Flying leads Screw connection FKM Cinc die-cast, nickel-plated FKM 13 2 m, 3-wire, PUR, halogen-free Black Locking nut material Flexible use Stationary position Drag chain operation So cable diameter > 10,000,000 Seference voltage Reference voltage Rated impulse voltage 2.5 kV Current loading Traversing speed Travelling distance To nut material Traversing speed Travelling distance	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 2 m, 3-wire, PUR, halogen-free Jacket material PUR, halogen-free Jacket color Black Cable diameter 4.1 mm Conductor cross-section 0.34 mm² Shielding Unshielded Bending radius Flexible use Stationary position Drag chain operation > 5 x cable diameter > 10 x cable diameter > 10 x cable diameter Stationary position Drag chain operation > 10 x cable diameter Position Drag chain operation > 5 x cable diameter Stationary position Drag chain operation > 5 x cable diameter Stationary position Drag chain operation > 5 x cable diameter Stationary position Drag chain operation > 5 x cable diameter Stationary position Drag chain operation > 10 x cable diameter Stationary position Drag chain	Connection type head A	Female connector, M12, 3-pin, straight, A-coded
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, 3-wire, PUR, halogen-free Jacket material PUR, halogen-free Jacket color Black Cable diameter 4.1 mm Conductor cross-section 0.34 mm² Shielding Unshielded Bending radius Flexible use > 10 x cable diameter > 5 x cable diameter > 5 x cable diameter > 10 x cable diameter Prag chain operation 10 x cable diameter Prag chain operation 10 x cable diameter Prag chain operation 2 25 v V DC Reference voltage 2 25 v V DC Rated impulse voltage 2 4 A Traversing speed 3 m/s Travelling distance 10 m	Connection type head B	Flying leads
Connector color Locking nut material Seal material FKM Tightening torque Width across flats Cable 2 m, 3-wire, PUR, halogen-free Jacket material Jacket color Cable diameter Cable diameter Conductor cross-section Shielding Bending radius Flexible use Stationary position Drag chain operation Drag chain operation Bending cycles Reference voltage Reterence voltage Rated impulse voltage Current loading Flexible use color Cable diameter 2.5 kV Current loading Flexible use color Since diameter 2.5 kV Current loading Flexible use color Since diameter 2.5 kV Current loading Since diameter	Locking plug connector	Screw connection
Locking nut material Seal material FKM Tightening torque 0.6 Nm Width across flats 13 Cable 2 m, 3-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 cycles Reference voltage Reference voltage Rated impulse voltage Current loading FIxM FKM 13 2 m. 3-wire, PUR, halogen-free Buck 4.1 mm 0.34 mm² Unshielded Unshielded 10.03 cable diameter > 5 x cable diameter > 10 x cable diameter > 10 x cable diameter > 10 x cable diameter 2 5 x cable diameter > 10,000,000 Reference voltage 2.5 kV Current loading 4 A Traversing speed 3 m/s Travelling distance 10 m	Connector material	TPU
Seal material FKM Tightening torque 0.6 Nm Width across flats 13 Cable 2 m, 3-wire, PUR, halogen-free Jacket material PUR, halogen-free Jacket color Black Cable diameter 4.1 mm Conductor cross-section 0.34 mm² Shielding Unshielded Bending radius Flexible use Stationary position > 5 x cable diameter Stationary position Drag chain operation > 10 x cable diameter > 10 x cable diameter Bending cycles 10,000,000 Reference voltage ≤ 250 V DC Rated impulse voltage ≤ 4 A Traversing speed 3 m/s Travelling distance 10 m	Connector color	Black
Tightening torque Width across flats 13 Cable 2 m, 3-wire, PUR, halogen-free Jacket material Jacket color Black Cable diameter 4.1 mm Conductor cross-section Shielding Bending radius Flexible use Stationary position Drag chain operation Drag chain operation Bending cycles Reference voltage Rated impulse voltage Current loading Traversing speed Traverling distance 0.6 Nm 13 2 m, 3-wire, PUR, halogen-free PUR, halogen-free PUR, halogen-free 9 Lacket 10 m, 3-wire, PUR, halogen-free 9 Lacket 10 x cable diameter 9 10 x cable diame	Locking nut material	Zinc die-cast, nickel-plated
Width across flats 13 Cable 2 m, 3-wire, PUR, halogen-free Jacket material PUR, halogen-free Jacket color Black Cable diameter 4.1 mm Conductor cross-section 0.34 mm² Shielding Unshielded Bending radius Flexible use Stationary position Drag chain operation > 5 x cable diameter > 10 x cable diameter > 10 x cable diameter > 200,000,000 Seference voltage ≤ 250 V DC Rated impulse voltage 2.5 kV Current loading ≤ 4 A Traversing speed 3 m/s Travelling distance 10 m	Seal material	FKM
Cable 2 m, 3-wire, PUR, halogen-free Jacket material PUR, halogen-free Black 1 mm Cable diameter 4.1 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 DC Rated impulse voltage 2.5 kV Current loading ≤ 4 A Traversing speed 3 m/s Travelling distance 10 m	Tightening torque	0.6 Nm
Jacket material PUR, halogen-free Jacket color Black Cable diameter 4.1 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 DC Rated impulse voltage 2.5 kV Current loading ≤ 4 A Traversing speed 3 m/s Travelling distance 10 m	Width across flats	13
Jacket color Cable diameter 4.1 mm Conductor cross-section 0.34 mm² Unshielded Bending radius Flexible use Stationary position Drag chain operation Drag chain operation Preference voltage Reference voltage Current loading Traversing speed Travelling distance Black 4.1 mm 0.34 mm² Unshielded Unshielded Unshielded Unshielded Vnshielded Vnshielde	Cable	2 m, 3-wire, PUR, halogen-free
Cable diameter 4.1 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 Drag chain operation > 10 x cable diameter Reference voltage ≤ 250 V DC Rated impulse voltage 2.5 kV Current loading ≤ 4 A Traversing speed 3 m/s Travelling distance 10 m	Jacket material	PUR, halogen-free
Conductor cross-section Shielding Bending radius Flexible use Stationary position Drag chain operation Drag chain operation Bending cycles Reference voltage Rated impulse voltage Current loading Traversing speed Travelling distance 0.34 mm² Unshielded Unshielded > 10 x cable diameter > 5 x cable diameter > 10 x cable diameter 10,000,000 2 250 V DC Rated impulse voltage 3 m/s Travelling distance	Jacket color	Black
Shielding Bending radius Flexible use Stationary position Drag chain operation Bending cycles Reference voltage Rated impulse voltage Current loading Traversing speed Travelling distance Lo x cable diameter 5 x cable diameter 10,000,000 5 x ca	Cable diameter	4.1 mm
Bending radius Flexible use > 10 x cable diameter Stationary position Drag chain operation > 5 x cable diameter 10,000,000 Reference voltage	Conductor cross-section	0.34 mm ²
Flexible use Stationary position Drag chain operation Drag chain operation Bending cycles Reference voltage Rated impulse voltage Current loading Traversing speed Travelling distance > 10 x cable diameter > 10,000,000 2 250 V DC 2.5 kV 4 A 3 m/s 10 m	Shielding	Unshielded
Stationary position Drag chain operation Drag chain operation Drag chain operation 10,000,000 Reference voltage Rated impulse voltage 2.5 kV Current loading Traversing speed Travelling distance > 5 x cable diameter > 10,000,000 ≥ 250 V DC 4 A 5 x cable diameter 10,000,000 ≥ 250 V DC 10 m	Bending radius	
Drag chain operation > 10 x cable diameter Bending cycles 10,000,000 Reference voltage ≤ 250 V DC Rated impulse voltage 2.5 kV Current loading ≤ 4 A Traversing speed 3 m/s Travelling distance 10 m	Flexible use	> 10 x cable diameter
Bending cycles 10,000,000 Reference voltage ≤ 250 V DC Rated impulse voltage 2.5 kV Current loading ≤ 4 A Traversing speed 3 m/s Travelling distance 10 m	Stationary position	> 5 x cable diameter
Reference voltage ≤ 250 V DC Rated impulse voltage 2.5 kV Current loading ≤ 4 A Traversing speed 3 m/s Travelling distance 10 m	Drag chain operation	> 10 x cable diameter
Rated impulse voltage 2.5 kV Current loading ≤ 4 A Traversing speed 3 m/s Travelling distance 10 m	Bending cycles	10,000,000
Current loading ≤ 4 A Traversing speed 3 m/s Travelling distance 10 m	Reference voltage	≤ 250 V DC
Traversing speed 3 m/s Travelling distance 10 m	Rated impulse voltage	2.5 kV
Travelling distance 10 m	Current loading	≤ 4 A
	Traversing speed	3 m/s
Acceleration ≤ 10 m/s ²	Travelling distance	10 m
	Acceleration	≤ 10 m/s²

Sensor/actuator cable
180°/1m
2,000,000
35
Zones with oils and lubricants Drag chain operation
CE UL
E335179
IP65 / IP66K / IP67
e -25 °C +80 °C
n -40 °C +80 °C
n -25 °C +80 °C
d -25 °C +85 °C
3
100 ΜΩ
III
30 mΩ
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
ETIM 5.0	EC000830
ETIM 6.0	EC000830
ETIM 7.0	EC003249
UNSPSC 16.0901	26121604

Dimensional drawing (Dimensions in mm (inch))



Recommended accessories

Other models and accessories → www.sick.com/

	Brief description	Туре	Part no.		
Other mounting accessories					
	1 piece, M12 mounting key set for SW13 with calibrated torque 0.6 Nm	TOOL-TW06M12AF13	5337208		
Plug connectors and cables					
	Head A: female connector, M12, 5-pin, straight Cable: unshielded	DOS-1205-G	6009719		
	Head A: male connector, M12, 5-pin, straight Cable: unshielded For field bus technology	STE-1205-G	6022083		

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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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