

# YF8U13-020UA1XLEAX

Sensor/actuator cable

**PLUG CONNECTORS AND CABLES** 





### Ordering information

Туре	Part no.
YF8U13-020UA1XLEAX	2094782

Other models and accessories → www.sick.com/Sensor\_actuator\_cable



#### Detailed technical data

#### **Technical specifications**

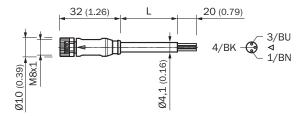
Flying leads cocking plug connector Connector material Connector color Connector color Connector material Connector color Connector material Connector color Connector material Connector color Colo	rechnical specifications	
Screw connection	Connection type head A	Female connector, M8, 3-pin, straight, A-coded
TPU   Black   Zinc die-cast, nickel-plated   FKM   Seal material   FKM   O.4 Nm   Width across flats   9   2 m, 3-wire, PUR, halogen-free   Black   Cable   diameter   A.1 mm   O.25 mm²   Unshielded   Sealing radius   Flexible use   Stationary position   Drag chain operation   Drag chain operation   Drag chain operation   2,500 V AC   Go V DC   Rated impulse voltage   Carres in Speed   4 A A   Markers in Speed   4 A A   Carres in Speed   4 A A   Carres in Speed   4 A missing speed	Connection type head B	Flying leads
Souncetor color  Socking nut material  Seal material  FKM  O.4 Nm  O.4 Nm  Width across flats  Stationary position Drag chain operation  Sealing cycles  Stationary position Drag chain operation  Sealing cycles  Stationary position Drag chain operation  Sealing cycles  Store of the first of the cycle  Sealing cycles  Store of the cycle  Stationary position Drag chain operation Drag chain operation  Sealing cycles  Store of the cycle  Store of	Locking plug connector	Screw connection
Since   Description   Descri	Connector material	TPU
FKM	Connector color	Black
Midth across flats   9   2 m, 3-wire, PUR, halogen-free   3 m	Locking nut material	Zinc die-cast, nickel-plated
Addith across flats  Cable  2 m, 3-wire, PUR, halogen-free  PUR, halogen-free  PUR, halogen-free  Black  4.1 mm  Conductor cross section  Chielding  Bending radius  Flexible use Stationary position Drag chain operation Drag chain operation  Conductor cross section  Section of the properties of the p	Seal material	FKM
2 m, 3-wire, PUR, halogen-free  lacket material lacket color lacket co	Tightening torque	0.4 Nm
PUR, halogen-free Black Cable diameter 4.1 mm Conductor cross section Chielding Chending radius  Flexible use Stationary position Drag chain operation Drag chain operation Conductor cross section  Conductor cross section  Chieference voltage Conductor cross section  Conductor cross section Chieference voltage  Stationary position Drag chain operation Conductor cross section Conductor cro	Width across flats	9
Blacket color Cable diameter 4.1 mm Conductor cross section Cable diameter Conductor cross section Cable diameter Conductor cross section Cable diameter Cab	Cable	2 m, 3-wire, PUR, halogen-free
Cable diameter Conductor cross section  Chiefding C	Jacket material	PUR, halogen-free
Conductor cross section  Shielding  Bending radius  Flexible use > 10 x cable diameter Stationary position Drag chain operation > 10 x cable diameter  Sounding cycles  Comminal voltage, cable 300 V AC  Seference voltage  Flexible use > 10 x cable diameter 10,000,000  Sounding cycles  Flexible use > 10,000,000  Flow of the comminal voltage, cable of the comminal voltage of the commination of the comminal voltage of the commination of t	Jacket color	Black
Shielding Sending radius  Flexible use Stationary position Drag chain operation  Sending cycles  Nominal voltage, cable  Reference voltage  So V AC  60 V DC  Rated impulse voltage  Current loading  Flexible use > 10 x cable diameter > 5 x cable diameter > 10,000,000  300 V AC  50 V AC  60 V DC  Rated impulse voltage  Current loading  Fraversing speed  Unshielded  10 x cable diameter > 10 x cable diameter   10,000,000  So V AC  60 V DC  1.5 kV  4 A  3 m/s	Cable diameter	4.1 mm
Flexible use Stationary position Drag chain operation Drag chain Drag chain operation Drag chain Drag c	Conductor cross section	0.25 mm <sup>2</sup>
Flexible use Stationary position Drag chain operation Drag chain operation  Sending cycles  Nominal voltage, cable  Test voltage, cable  Test voltage  To V AC  To V	Shielding	Unshielded
Stationary position Drag chain operation Drag chain operation  Sending cycles 10,000,000  Nominal voltage, cable Test voltage, cable  Seference voltage  50 V AC  60 V DC  Rated impulse voltage  1.5 kV  Current loading Traversing speed  > 5 x cable diameter  > 10 x cable diameter  10,000,000  300 V AC  2,500 V AC  60 V DC  3 m/s	Bending radius	
Drag chain operation > 10 x cable diameter  10,000,000  Nominal voltage, cable  Test voltage, cable  50 V AC  60 V DC  Rated impulse voltage  1.5 kV  Current loading  Traversing speed  > 10,000,000  300 V AC  2,500 V AC  60 V DC  300 V AC  4 A  3 m/s	Flexible use	> 10 x cable diameter
Sending cycles  Nominal voltage, cable  Set voltage, cable  Reference voltage  50 V AC  60 V DC  Rated impulse voltage  1.5 kV  Current loading  fraversing speed  1 monopoly AC  1 monopo	Stationary position	> 5 x cable diameter
Nominal voltage, cable  2,500 V AC  Reference voltage  50 V AC  60 V DC  Rated impulse voltage  1.5 kV  4 A  Traversing speed  300 V AC  3 m/s	Drag chain operation	> 10 x cable diameter
Test voltage, cable  2,500 V AC  Seference voltage  50 V AC  60 V DC  Rated impulse voltage  1.5 kV  Current loading  4 A  Traversing speed  3 m/s	Bending cycles	10,000,000
Reference voltage  50 V AC  60 V DC  Rated impulse voltage  1.5 kV  Current loading  4 A  Traversing speed  3 m/s	Nominal voltage, cable	300 V AC
50 V AC 60 V DC Rated impulse voltage 1.5 kV Current loading 4 A Traversing speed 3 m/s	Test voltage, cable	2,500 V AC
60 V DC  Rated impulse voltage 1.5 kV  Current loading 4 A  Traversing speed 3 m/s	Reference voltage	
Rated impulse voltage 1.5 kV Current loading 4 A Traversing speed 3 m/s		
Current loading 4 A 3 m/s		
Traversing speed 3 m/s	Rated impulse voltage	
	Current loading	
Travelling distance 10 m	Traversing speed	
	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	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	Other mounting accessories					
	1 piece, M8 mounting key set for SW9 with calibrated torque 0.4 Nm	TOOL-TWO4M08AF09	5337207			
Plug connectors and cables						
	<ul> <li>Connection type head A: Female connector, M8, 3-pin, straight</li> <li>Description: Unshielded</li> <li>Connection systems: Screw-type terminals</li> <li>Permitted cross-section: 0.14 mm² 0.5 mm²</li> </ul>	DOS-0803-G	7902077			
	<ul> <li>Connection type head A: Male connector, M8, 3-pin, straight</li> <li>Description: Unshielded</li> <li>Connection systems: Screw-type terminals</li> <li>Permitted cross-section: 0.14 mm² 0.5 mm²</li> </ul>	STE-0803-G	6037322			

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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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