

YG2A13-100UB1XLEAX

Sensor/actuator cable

PLUG CONNECTORS AND CABLES





Ordering information

Туре	Part no.
YG2A13-100UB1XLEAX	2095754

Other models and accessories

www.sick.com/Sensor_actuator_cable



Detailed technical data

Technical specifications

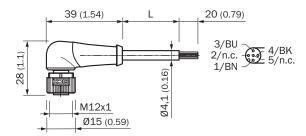
Accessory group Accessory family Connecting cables Connection type head A Connection type head B Locking plug connector Connector Connector material TPU Connector color Locking nut material Seal material FKM Tightening torque 0.6 Nm Width across flats 13 Cable Jacket material Jacket material PUR, halogen-free Jacket color Cable diameter 4.1 mm Conductor cossection Shielding Bending radius Flexible use Stationary position Drag chain operation Drag chain operation Pown AC Reference voltage Reference voltage 250 V AC Rated impulse voltage Rate or AC Connector and cables Connection, and cables Female connector, M12, 3-pin, angled, A-coded Female connection Female connection Fixed eachs Fixed in-acceptance Fixed eachs Fixed in-acceptance Fixed in-accepta	recillical specifications	
Connection type head A Connection type head B Locking plug connector Connector material TPU Connector color Black Locking nut material Seal material FKM Tightening torque Width across flats Cable Jacket material Jacket color Black Conductor cross section Cable diameter Conductor cross section Shielding Bending radius Fiexble use Stationary position Drag chain operation Drag chain operation Bending cycles Nominal voltage, cable TEXT VAC SCOV AC Reference voltage Fiexble use Scov AC Scov Connector, M12, 3-pin, angled, A-coded Flying leads Flying leads Flying leads Screw connector, M12, 3-pin, angled, A-coded Flying leads Flying leads Screw connection TPU Thu Hall Connector Connector, M12, 3-pin, angled, A-coded Flying leads Screw connection TPU TeXU TeXU Screw connection TPU Screw connection TPU Screw connection Flex Jing deads Flex Flex Flex Flex Flex Flex Flex Flex	Accessory group	Plug connectors and cables
Connection type head B Locking plug connector 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, 3-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 Drag chain operation Server Convector Set ov AC Reference voltage 250 V AC 250 V DC	Accessory family	Connecting cables
Locking plug connector Connector material TPU Connector color Black Locking nut material Seal material FKM Tightening torque 0.6 Nm Width across flats 13 Cable 10 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 Nominal voltage, cable Test voltage, cable Reference voltage 250 V AC 250 V DC	Connection type head A	Female connector, M12, 3-pin, angled, A-coded
Connector material Connector color Black Locking nut material Seal material FKM Tightening torque 0.6 Nm Width across flats 13 Cable 10 m, 3-wire, PUR, halogen-free Jacket material PUR, halogen-free Black Cable diameter 4.1 mm Conductor cross section Shielding Bending radius Flexible use Stationary position Drag chain operation Drag chain operation Bending cycles Nominal voltage, cable Test voltage 250 V AC 250 V DC	Connection type head B	Flying leads
Connector color Locking nut material Seal material FKM Tightening torque 0.6 Nm Width across flats 13 Cable 10 m, 3-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 Bending votlage, cable 250 V AC Reference voltage 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 10 m, 3-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 Bending cycles Nominal voltage, cable 250 V AC Reference voltage 250 V AC 250 V DC	Connector material	TPU
FKM Tightening torque 0.6 Nm Width across flats 13 Cable 10 m, 3-wire, PUR, halogen-free Jacket material PUR, halogen-free Black Cable diameter 4.1 mm Conductor cross section Shielding Unshielded Bending radius Flexible use Stationary position Drag chain operation Drag chain operation PUR halogen-free 10,000,000 State diameter 10,000,000 Nominal voltage, cable Test voltage, cable Reference voltage 250 V AC 250 V DC	Connector color	Black
Tightening torque Width across flats Cable 10 m, 3-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 Bending cycles 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 10 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 Unshielded Bending radius Flexible use Stationary position Drag chain operation Drag chain operation 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	Seal material	FKM
Cable Jacket material PUR, halogen-free PUR, halogen-free Black Cable diameter 4.1 mm Conductor cross section Shielding Unshielded Bending radius Flexible use Stationary position Drag chain operation Drag chain operation Position Stationary volume Stationary Position Drag chain operation Drag chain operation Sending cycles Nominal voltage, cable Test voltage, cable 250 V AC 250 V DC	Tightening torque	0.6 Nm
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 Nominal voltage, cable Test voltage, cable Reference voltage 250 V AC 250 V DC	Width across flats	13
Jacket color Cable diameter 4.1 mm Conductor cross section Shielding Bending radius Flexible use Stationary position Drag chain operation Drag chain operation Bending cycles Nominal voltage, cable Test voltage Reference voltage 250 V AC 250 V DC	Cable	10 m, 3-wire, PUR, halogen-free
Cable diameter Conductor cross section Shielding Bending radius Flexible use Stationary position Drag chain operation Bending cycles Nominal voltage, cable Test voltage 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 Sending cycles Nominal voltage, cable Test voltage, cable Reference voltage 250 V AC 250 V DC	Jacket color	Black
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	Cable diameter	4.1 mm
Bending radius Flexible use Stationary position > 5 x cable diameter > 5 x cable diameter Drag chain operation > 10 x cable diameter 10,000,000 Sominal voltage, cable 300 V AC Test voltage, cable 2,500 V AC Reference voltage 250 V AC 250 V DC	Conductor cross section	0.34 mm²
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	Shielding	Unshielded
Stationary position Drag chain operation > 5 x cable diameter > 10 x cable diameter > 10,000,000 Nominal voltage, cable Test voltage, cable 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

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	TOOL-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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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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