

YG2A13-020UB1M2A13

Sensor/actuator cable





Ordering information

Туре	Part no.
YG2A13-020UB1M2A13	2095993

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



Detailed technical data

Technical specifications

Connection type head A Female connector, M12, 3-pin, angled, A-coded Connection type head B Male connector, M12, 3-pin, straight, A-coded Locking plug connector Screw connection Connector material TPU Connector color Black Locking nut material FKM Seal material FKM Width across flats 13 Cable 2 m, 3-wire, PUR, halogen-free Jacket anterial 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 > 10 x cable diameter Stationary position Drag chain operation > 10 x cable diameter Stationary collision Drag chain operation > 10 x cable diameter Stationary position Drag chain operation > 10 x cable diameter Stationary position Drag chain operation > 10 x cable diameter Stationary position Drag chain operation > 10 x cable diameter Sto voltage, cable 250 V AC Sto	'	
Connector material Screw connection 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 Shelding Unshielded Bending radius Flexible use > 10 x cable diameter Stationary position > 5 x cable diameter Drag chain operation > 10 x cable diameter Shoulding cycles 10,000,000 Nominal voltage, cable 2,50 v AC Reference voltage 250 v AC 250 v DC Rated impulse voltage 2,5 k V Current loading 4 A Travesling speed 3 m/s Travelling distance 10 m	Connection type head A	Female connector, M12, 3-pin, angled, A-coded
Connector color Elack Locking nut material Zinc die-cast, nickel-plated Seal material FKM Tightening torque 0.6 Nm Width across flats 1 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 Stationary position > 5 x cable diameter Drag chain operation > 10 x cable diameter Stationary position > 10 x cable diameter Stationary position > 5 x cable diameter Stationary position > 10 x cable diameter Stationary position > 10 x cable diameter Stationary position > 5 x cable diameter Stationary position > 10 x cable diameter </th <th>Connection type head B</th> <th>Male connector, M12, 3-pin, straight, A-coded</th>	Connection type head B	Male connector, M12, 3-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 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 us Stationary position > 10 x cable diameter Stationary position > 10 x cable diameter Proag chain operation > 10 x cable diameter Stationary position > 10 x cable diameter Proag chain operation > 10 x cable diameter Nominal voltage, cable 300 x AC Test voltage, cable 250 V AC Secretary of the color 250 V AC Total political color 25 k V Current loading 4 A Traversing speed 3 m/s Travelling distance 10 m	Locking plug connector	Screw connection
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 Shelding Unshielded Bending radius > 10 x cable diameter Stationary position Drag chain operation > 10 x cable diameter 10 x cable diameter > 10 x cable diameter 10 x cable diameter > 10 x cable diameter 250 x AC 2,500 v AC Test voltage, cable 2,500 v AC Reference voltage 250 v AC 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 Shelding Unshielded Bending radius Flexible use 5 x cable diameter Stationary position 5 x cable diameter Drag chain operation 10 x cable diameter Bending cycles 10,000,000 Nominal voltage, cable 2,500 V AC Test voltage, cable 2,500 V AC Reference voltage 250 V AC Z50 V DC Rated impulse voltage 2.5 kV Current loading 4 A Traversing speed 3 m/s Travelling distance 10 m	Connector color	Black
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	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 Pirag chain operation Prag chain o	Seal material	FKM
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 > 10 x cable diameter Stationary position Drag chain operation > 5 x cable diameter Drag chain operation Drag chain operation 10 x cable diameter 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 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 Jacket color Cable diameter Conductor cross section Shielding Bending radius Flexible use Stationary position Drag chain operation Drag chain operation Shoulding voltage, cable Test voltage, cable Reference voltage Reference voltage Rated impulse voltage Current loading Traversing speed Tavelling distance PUR, halogen-free Black A.1 mm A.2 mm A.3 mm² A.3 m/s PLR, halogen-free Black Black A.1 mm A.3 mm A.3 mm² A.3 mm² A.3 mm² A.3 mm² A.3 mm² A.3 mm² A.3 mm/s Traverling distance PUR, halogen-free Black A.1 mm A.3 mm² A.3 mm/s Traversing speed To mm A.3 mm/s Taversing speed To mm A.3 mm/s Taversing speed To mm A.3 mm/s Taversing speed To mm To mm Taversing speed To mm To mm Taversing speed To mm To mm To mm Taversing speed To mm To mm To mm Taversing speed To mm To	Width across flats	13
Jacket color Black Cable diameter 4.1 mm Conductor cross section 0.34 mm² Shielding Unshielded Bending radius Flexible use Stationary position Paragchain operation Prag chain op	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 Drag chain operation Drag chain operatio	Jacket material	PUR, halogen-free
Conductor cross section 0.34 mm² Shielding Unshielded Bending radius > 10 x cable diameter Stationary position Drag chain operation Drag chain	Jacket color	Black
Shielding Bending radius Flexible use Stationary position Drag chain operation Bending cycles Nominal voltage, cable Test voltage Reference voltage Rated impulse voltage Current loading Traverling distance Unshielded Linkhielded Linkhielded Linkhielded Linkhielded Linkhielded Linkhielded Linkhielded 10 x cable diameter > 5 x cable diameter > 10 x cable diameter 10 x cable diameter 10 x cable diameter 10 x cable	Cable diameter	4.1 mm
Bending radius Flexible use Stationary position Drag chain operation Drag chain Drag ch	Conductor cross section	0.34 mm ²
Flexible use Stationary position Drag chain operation Bending cycles Nominal voltage, cable Test voltage Reference voltage 250 V AC 250 V DC Rated impulse voltage Current loading Traverling distance > 10 x cable diameter > 10,000,000 300 V AC 2,500 V AC 250 V DC Rated impulse voltage 4 A 3 m/s Travelling distance > 10 x cable diameter > 10,000,000 AC 2,500 V AC 2,500 V AC 250 V DC AC 2	Shielding	Unshielded
Stationary position 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 2.5 kV Current loading Traverling distance > 5 x cable diameter > 10,000,000 > 00 > 300 V AC 2,500 V AC 250 V DC A A 3 m/s Travelling distance	Bending radius	
Drag chain operation > 10 x cable diameter 10,000,000 Nominal voltage, cable 2,500 V AC Reference voltage 250 V AC 250 V DC Rated impulse voltage 2.5 kV Current loading Traversing speed 3 m/s Travelling distance 100 000000000000000000000000000000000	Flexible use	> 10 x cable diameter
Bending cycles10,000,000Nominal voltage, cable300 V ACTest voltage, cable2,500 V ACReference voltage250 V AC250 V DCRated impulse voltage2.5 kVCurrent loading4 ATraversing speed3 m/sTravelling distance10 m	Stationary position	> 5 x cable diameter
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Test voltage, cable Reference voltage 250 V AC 250 V DC Rated impulse voltage 2.5 kV Current loading 4 A Traversing speed 3 m/s Travelling distance 2,500 V AC 250 V DC 250 V DC 250 V DC 10 m	Bending cycles	10,000,000
Reference voltage 250 V AC 250 V DC Rated impulse voltage 2.5 kV Current loading 4 A Traversing speed 3 m/s Travelling distance 10 m	Nominal voltage, cable	300 V AC
250 V AC 250 V DC Rated impulse voltage 2.5 kV Current loading 4 A Traversing speed 3 m/s Travelling distance 10 m	Test voltage, cable	2,500 V AC
250 V DC Rated impulse voltage 2.5 kV Current loading 4 A Traversing speed 3 m/s Travelling distance 10 m	Reference voltage	
Rated impulse voltage 2.5 kV Current loading 4 A Traversing speed 3 m/s Travelling distance 10 m		250 V AC
Current loading4 ATraversing speed3 m/sTravelling distance10 m		
Traversing speed 3 m/s Travelling distance 10 m		
Travelling distance 10 m		
Acceleration ≤ 10 m/s²		10 m
	Acceleration	≤ 10 m/s²

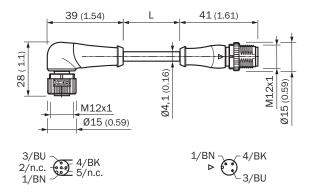
Signal type	Sensor/actuator cable	
Torsion force	180°/1m	
Torsion cycles	2,000,000	
Cycles per minutes	35	
Application	Uncontaminated zones Zones with oils and lubricants Robot Drag chain operation	
Authorizations	CE UL	
UL File No.	E335179	
Enclosure rating	IP65 / IP66K / IP67	
Operating temperature		
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

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Dimensional drawing (Dimensions in mm (inch))



Recommended accessories

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

	Brief description	Туре	Part no.
Other mountin	g accessories		
	1 piece, M12 mounting key set for SW13 with calibrated torque 0.6 Nm	T00L-TW06M12AF13	5337208

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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.

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For us, that is "Sensor Intelligence."

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