

# YG2A13-200UB1XLEAX

Sensor/actuator cable





### Ordering information

Туре	Part no.
YG2A13-200UB1XLEAX	2095756

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



#### Detailed technical data

#### Technical specifications

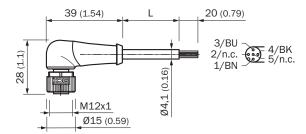
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Connection type head A	Female connector, M12, 3-pin, angled, A-coded
Connection type head B	Flying leads
Locking plug connector	Screw connection
Connector material	TPU
Connector color	Black
Locking nut material	Zinc die-cast, nickel-plated
Seal material	FKM
Tightening torque	0.6 Nm
Width across flats	13
Cable	20 m, 3-wire, PUR, halogen-free
Jacket material	PUR, halogen-free
Jacket color	Black
Cable diameter	4.1 mm
Conductor cross section	0.34 mm <sup>2</sup>
Shielding	Unshielded
Bending radius	
Flexible use	> 10 x cable diameter
Stationary position	> 5 x cable diameter
Drag chain operation	> 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
Rated impulse voltage	2.5 kV
Current loading	4 A
Traversing speed	3 m/s

Torsion force  Torsion cycles  Cycles per minutes  Application  Uncontaminated zones Zones with oils and lubricants Robot Drag chain operation  CE UL  UL File No.  E335179  Enclosure rating  Operating temperature  Flexible use Stationary position Drag chain operation  Drag chain operation  Flexible use Stationary position Head  Drag chain operation  Head  Torsion cycles  2,000,000  Uncontaminated zones Zones with oils and lubricants Robot Drag chain operation  1065 / IP66K / IP67  1075 - 40°C +80°C -40°C +80°C -25°C +80°C -25°C +80°C -25°C +80°C -25°C +85°C  Contamination rating  Insulation resistance  100 MΩ  Overvoltage category  III		
Sensor/actuator cable	Travelling distance	10 m
Torsion force  180° / 1 m  Torsion cycles  2,000,000  Cycles per minutes  35  Application  Uncontaminated zones Zones with oils and lubricants Robot Drag chain operation  Equil  UL File No.  E335179  Enclosure rating  Operating temperature  Flexible use -25°C+80°C -40°C+80°C -25°C+80°C	Acceleration	≤ 10 m/s²
Torsion cycles  2,000,000  Cycles per minutes  Application  Uncontaminated zones Zones with oils and lubricants Robot Drag chain operation  CE UL  UL File No.  E335179  Enclosure rating  Operating temperature  Flexible use Stationary position Drag chain operation  Contamination rating  Insulation resistance  Overvoltage category  Thermal resistance, piping  100 MΩ  Uncontaminated zones Zones with oils and lubricants Robot Drag chain operation  CE UL  UL  E35179  E135179  E13	Signal type	Sensor/actuator cable
Cycles per minutes  Application  Uncontaminated zones Zones with oils and lubricants Robot Drag chain operation  CE UL  UL File No.  E335179  Enclosure rating  Operating temperature  Flexible use Stationary position Drag chain operation  Drag chain operation  Head  Contamination rating  Insulation resistance  Overvoltage category  Thermal resistance, piping  Uncontaminated zones Zones with oils and lubricants Robot Drag chain operation  E35  CE UL  L335179  L965 / IP66K / IP67  CE UL  L335179  L965 / IP66K / IP67  CO  CO  L95° C +80° C  -40° C +80° C  -25° C +80° C  -25° C +85° C  Contamination rating  Solution resistance  100 MΩ  Thermal resistance, piping  Flame retardant according to UL 1581, horizontal flame test/CSA FT2 / IEC 60332-1,	Torsion force	180°/1 m
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 Stationary position -40 °C +80 °C -40 °C +80 °C -25 °C +80 °C -25 °C +80 °C -25 °C +85 °C         Contamination rating Insulation resistance       3         Insulation resistance Query III       100 MΩ         Specific insulation resistance, piping       Flame retardant according to UL 1581, horizontal flame test/CSA FT2 / IEC 60332-1,	Torsion cycles	2,000,000
Zones with oils and lubricants Robot Drag chain operation  CE UL  UL File No. E335179  Enclosure rating IP65 / IP66K / IP67  Operating temperature  Flexible use -25 °C +80 °C -40 °C +80 °C -25 °C +80 °C Drag chain operation -25 °C +80 °C -25 °C +85 °C  Contamination rating 3 Insulation resistance 100 MΩ  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,	Cycles per minutes	35
UL File No. E335179  Enclosure rating IP65 / IP66K / IP67  Operating temperature  Flexible use	Application	Zones with oils and lubricants Robot
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 MΩ         Overvoltage category       III         Specific insulation resistance, piping       Flame retardant according to UL 1581, horizontal flame test/CSA FT2 / IEC 60332-1,	Authorizations	
Operating temperature         Flexible use       -25 °C +80 °C         Stationary position       -40 °C +80 °C         -25 °C +80 °C       -25 °C +85 °C         Contamination rating       3         Insulation resistance       100 MΩ         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,	UL File No.	E335179
Flexible use Stationary position Drag chain operation Head Contamination rating Insulation resistance Overvoltage category  Thermal resistance, piping  Flexible use -25 °C +80 °C -40 °C +80 °C -25 °C +85 °C  25 °C +85 °C  100 MΩ  100 MΩ  Flame retardant according to UL 1581, horizontal flame test/CSA FT2 / IEC 60332-1,	Enclosure rating	IP65 / IP66K / IP67
Stationary position Drag chain operation Head Contamination rating Insulation resistance  Overvoltage category  Thermal resistance, piping  -40 °C +80 °C -25 °C +80 °C -25 °C +85 °C  3  Insulation resistance  100 MΩ  III  Specific insulation resistance  30 mΩ  Flame retardant according to UL 1581, horizontal flame test/CSA FT2 / IEC 60332-1,	Operating temperature	
Drag chain operation Head -25 °C +80 °C -25 °C +85 °C  Contamination rating 3 Insulation resistance 100 MΩ  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,	Flexible use	-25 °C +80 °C
Head $-25$ °C +85 °C  Contamination rating 3 Insulation resistance 100 MΩ  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,	Stationary position	-40 °C +80 °C
Contamination rating       3         Insulation resistance       100 MΩ         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,	Drag chain operation	-25 °C +80 °C
Insulation resistance       100 MΩ         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,	Head	-25 °C +85 °C
Overvoltage category III  Specific insulation resistance $30 \text{ m}\Omega$ Thermal resistance, piping Flame retardant according to UL 1581, horizontal flame test/CSA FT2 / IEC 60332-1,	Contamination rating	3
Specific insulation resistance       30 mΩ         Thermal resistance, piping       Flame retardant according to UL 1581, horizontal flame test/CSA FT2 / IEC 60332-1,	Insulation resistance	100 ΜΩ
Thermal resistance, piping Flame retardant according to UL 1581, horizontal flame test/CSA FT2 / IEC 60332-1,	Overvoltage category	III
	Specific insulation resistance	30 mΩ
	Thermal resistance, piping	

#### 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		
Others					
	Connection type head A: Male connector, M12, 5-pin, straight, A-coded 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		
	<ul> <li>Connection type head A: Female connector, M12, 5-pin, straight, A-coded</li> <li>Description: Unshielded, Head A: female connector, M12, 5-pin, straight, unshielded, for cable diameter 4 mm 6 mm Head B: -</li> <li>Connection systems: Screw-type terminals</li> <li>Permitted cross-section: ≤ 0.75 mm²</li> </ul>	DOS-1205-G	6009719		

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