

YG2A25-200UB6XLEAX

Sensor-actuator cables

CONNECTORS AND CABLES





Ordering information

Туре	part no.
YG2A25-200UB6XLEAX	2095795

Other models and accessories → www.sick.com/Sensor-actuator_cables



Detailed technical data

Technical specifications

Connection type head A		Female connector, M12, 5-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, 5-wire, PUR, halogen-free
Jacket material		PUR, halogen-free
Jacket color		Black
Cable diameter		5.6 mm
Conductor cross section	1	5 x 0.34 mm ²
Shielding		Shielded
Bending radius		
	Flexible use	> 10 x cable diameter
	Stationary position	> 5 x cable diameter
	Drag chain operation	> 10 x cable diameter
Bending cycles		5,000,000
Nominal voltage, cable		300 V AC
Test voltage, cable		2,000 V AC
Reference voltage		
		60 V AC
		60 V DC
Rated impulse voltage		1.5 kV

Travelling distance 5 m Acceleration 5 m Acceleration 5 m Acceleration 5 m/s² Signal type Sensor/actuator cable Torsion force 30° / 1 m Torsion cycles 2,000,000 Cycles per minutes 35	Current loading	4 A
Travelling distance 5 m		
Acceleration \$ 5 m/s² Signal type Sensor/actuator cable Torsion force 30° / 1 m 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 UL File No. E335179 Enclosure rating IP65 / IP66K / IP67 Operating temperature -25 °C +80 °C Stationary position Drag chain operation -40 °C +80 °C Please of Contamination rating 3 Insulation resistance 100 MΩ Overvoltage category III Specific insulation resistance 30 mΩ	Traversing speed	3.3 m/s
Signal type Sensor/actuator cable Torsion force 30° / 1 m 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 UL File No. E335179 Enclosure rating IP65 / IP66K / IP67 Operating temperature -25°C+80°C Stationary position Drag chain operation Alead -25°C+80°C Octamination rating Insulation resistance 100 MΩ Overvoltage category III Specific insulation resistance 30 mΩ	Travelling distance	5 m
Torsion force 30° / 1 m	Acceleration	$\leq 5 \text{ m/s}^2$
Torsion cycles 2,000,000 Cycles per minutes Application Uncontaminated zones Zones with oils and lubricants Robot Drag chain operation Authorizations CE UL UL File No. Enclosure rating Operating temperature Flexible use Stationary position Drag chain operation Plead Drag chain operation Head Contamination rating Insulation resistance 100 MΩ Overvoltage category Specific insulation resistance 2,000,000 35 Uncontaminated zones Zones with oils and lubricants Robot Drag chain operation Plead 25 °C +80 °C -25 °C +80 °C -25 °C +80 °C -25 °C +85 °C Oortamination rating 3 Insulation resistance 100 MΩ Overvoltage category Specific insulation resistance 30 mΩ	Signal type	Sensor/actuator cable
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 Stationary position Drag chain operation -25 °C +80 °C -40 °C +80 °C -25 °C +80 °C -25 °C +80 °C Contamination rating 3 Insulation resistance 100 MΩ Overvoltage category III Specific insulation resistance 30 mΩ	Torsion force	30°/1 m
Application Uncontaminated zones Zones with oils and lubricants Robot Drag chain operation Authorizations CE UL UL File No. Enclosure rating Operating temperature Flexible use Stationary position Drag chain operation Head -25 °C +80 °C -25 °C +80 °C -25 °C +80 °C Contamination rating Insulation resistance Overvoltage category Specific insulation resistance Uncontaminated zones Zones with oils and lubricants Robot Drag chain operation CE UL UL He6K / IP67 OC -40 °C +80 °C -25 °C +80 °C -25 °C +80 °C -25 °C +85 °C Sontamination rating Insulation resistance 100 MΩ Overvoltage category III Specific insulation resistance	Torsion cycles	2,000,000
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 Drag chain operation Drag chain operation Head Contamination rating Insulation resistance 100 MΩ Overvoltage category Specific insulation resistance Zones with oils and lubricants Robot Drag chain operation UL EA E335179 E335179 E335179 E430 °C -40 °C +80 °C -25 °C +80 °C -25 °C +80 °C -25 °C +85 °C Sontamination rating Insulation resistance 100 MΩ Specific insulation resistance 30 mΩ	Cycles per minutes	35
UL UL File No. E335179 Enclosure rating IP65 / IP66K / IP67 Operating temperature Flexible use 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 30 mΩ	Application	Zones with oils and lubricants Robot
Enclosure ratingIP65 / IP66K / IP67Operating temperatureFlexible use Stationary position -25 °C +80 °C -40 °C +80 °C -25 °C +80 °C -25 °C +80 °CDrag chain operation -25 °C +80 °C -25 °C +85 °CContamination rating 3Insulation resistance100 MΩOvervoltage categoryIIISpecific insulation resistance30 mΩ	Authorizations	
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 30 mΩ	UL File No.	E335179
Flexible use $-25 ^{\circ}\text{C} \dots +80 ^{\circ}\text{C}$ Stationary position $-40 ^{\circ}\text{C} \dots +80 ^{\circ}\text{C}$ Drag chain operation $-25 ^{\circ}\text{C} \dots +80 ^{\circ}\text{C}$ Head $-25 ^{\circ}\text{C} \dots +85 ^{\circ}\text{C}$ Contamination rating 3 Insulation resistance $100 \text{M}\Omega$ Overvoltage category III Specific insulation resistance $30 \text{m}\Omega$	Enclosure rating	IP65 / IP66K / IP67
Stationary position $-40 ^{\circ}\text{C} \dots +80 ^{\circ}\text{C}$ Drag chain operation $-25 ^{\circ}\text{C} \dots +80 ^{\circ}\text{C}$ Head $-25 ^{\circ}\text{C} \dots +85 ^{\circ}\text{C}$ Contamination rating 3 Insulation resistance $100 \text{M}\Omega$ Overvoltage category III Specific insulation resistance $30 \text{m}\Omega$	Operating temperature	
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	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	Stationary position	-40 °C +80 °C
	Drag chain operation	-25 °C +80 °C
$\begin{array}{ll} \text{Insulation resistance} & 100 \text{ M}\Omega \\ \text{Overvoltage category} & \text{III} \\ \text{Specific insulation resistance} & 30 \text{ m}\Omega \end{array}$	Head	-25 °C +85 °C
Overvoltage category III Specific insulation resistance $30 \text{ m}\Omega$	Contamination rating	3
Specific insulation resistance $30 \text{ m}\Omega$	Insulation resistance	100 ΜΩ
•	Overvoltage category	III
The west vasiations a wining Flore vater don't according to III 1591 Section 1000 (II) CCA FTO / IFO COSCO CO	Specific insulation resistance	30 mΩ
riame resistance, piping riame retardant according to UL 1381 Section 1090 (n), CSA F12 / IEC 60332-2-2	Thermal resistance, piping	Flame retardant according to UL 1581 Section 1090 (H), CSA FT2 / IEC 60332-2-2

Certificates

EU declaration of conformity	✓
UK declaration of conformity	✓
Moroccan declaration of conformity	✓
China-RoHS	✓
cULus certificate	✓

Classifications

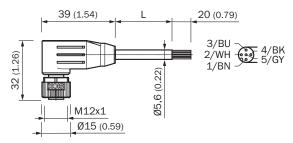
ECLASS 5.0	19030312
ECLASS 5.1.4	19030312
ECLASS 6.0	27060304
ECLASS 6.2	27060304
ECLASS 7.0	27060304
ECLASS 8.0	27060304
ECLASS 8.1	27060304
ECLASS 9.0	27060304
ECLASS 10.0	27060304
ECLASS 11.0	27060304

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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_cables

	Brief description	Туре	part no.	
connectors and cables				
	Connection type head A: Male connector, M12, 5-pin, straight, A-coded Description: Unshielded Connection systems: Screw-type terminals Permitted cross-section: ≤ 0.75 mm² Note: For field bus technology	STE-1205-G	6022083	
	 Connection type head A: Female connector, M12, 5-pin, straight, A-coded Description: Unshielded Connection systems: Screw-type terminals Permitted cross-section: ≤ 0.75 mm² 	DOS-1205-G	6009719	
Mounting systems				
1	 Description: M12 mounting key set for SW13 with calibrated torque 0.6 Nm Packing unit: 1 piece Suitable for: M12 Standard 	TOOL-TW06M12AF13	5337208	

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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.

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