

YG2A28-100UA6XLEAX

Sensor/actuator cable

PLUG CONNECTORS AND CABLES





Ordering information

Туре	Part no.
YG2A28-100UA6XLEAX	2114689

For 8-pin sensor-actuator cables, the wire colors are not standardized. Therefore, please observe the pin assignment of the sensor and the cable in the respective data sheet.

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



Detailed technical data

Technical specifications

Accessory family Connecting cables Connection type head A Female connector, M12, 8-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 Midth across flats 13 Cable 10 m, 8-wire, PUR, halogen-free Jacket anterial PUR, halogen-free Jacket color Black Cable diameter 7 mm Conductor cross section 0.25 mm² Shielding Shielded Bending radius Flexible use Stationary position Prag chain operation > 10 x cable diameter Stationary position Prag chain operation > 10 x cable diameter Sending cycles 5,000,000 Nominal voltage, cable 2,000 V AC Reference voltage 30 V AC 30 V AC <	rediffical openitions	
Connection type head B Female connector, M12, 8-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 10 m, 8-wire, PUR, halogen-free Jacket material PUR, halogen-free Jacket color Black Cable diameter 7 mm Conductor cross section 0.25 mm² Shielding Shielded Bending radius Flexible use > 10 x cable diameter Stationary position Drag chain operation > 5 x cable diameter Programment of Drag chain operation > 10 x cable diameter Stationary position Drag chain operation Drag chain operation > 10 x cable diameter Stationary position Drag chain operation Drag chain operation > 2000 V AC Reference voltage 30 V AC 30 V AC 30 V AC	Accessory group	Plug connectors and cables
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 10 m, 8-wire, PUR, halogen-free Jacket tasterial PUR, halogen-free Jacket color Black Cable diameter 7 mm Conductor cross section 0.25 mm² Shielding Shielded Bending radius Flexible use Stationary position Drag chain operation > 10 x cable diameter > 5 x cable diameter > 5 x cable diameter > 10 x cable diameter > 10 x cable diameter Should diameter > 10 x cable diameter Stationary position Drag chain operation > 10 x cable diameter Should diameter > 2000,000 Nominal voltage, cable 300 v AC Test voltage, cable 2,000 v AC Reference voltage 30 v AC 30 v AC 30 v AC	Accessory family	Connecting cables
Locking plug connector Connector material TPU Connector color Locking nut material Seal material Tightening torque Width across flats Cable Jacket material Jacket color Cable diameter Conductor cross section Shielding Bending radius Flexible use Stationary position Drag chain operation Bending cycles Nominal voltage, cable Test voltage, cable Reference voltage 30 V AC 30 V AC Shielding Silack TPU Silack TRU Jacket Color Black 10 m, 8-wire, PUR, halogen-free PUR, halogen-free PUR, halogen-free Black 7 mm 0.25 mm² Shielded Shielded Stationary position Drag chain operation Bending cycles Nominal voltage, cable 300 V AC 30 V AC 30 V AC 30 V AC	Connection type head A	Female connector, M12, 8-pin, angled, A-coded
Connector material Connector color Black Locking nut material Seal material FKM Tightening torque Width across flats 13 Cable Jacket material PUR, halogen-free Jacket color Black Cable diameter Conductor cross section Shielding Bending radius Flexible use Stationary position Drag chain operation Drag chale Source So	Connection type head B	Flying leads
Connector color Locking nut material Zinc die-cast, nickel-plated FKM Tightening torque Width across flats 13 Cable 10 m, 8-wire, PUR, halogen-free PUR, halogen-free Black Cable diameter 7 mm Conductor cross section Shielding Bending radius Flexible use Stationary position Drag chain operation Drag chain operation Shouldage, cable So V AC 20 V AC Reference voltage 30 V AC 30 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, 8-wire, PUR, halogen-free PUR, halogen-free Black Cable diameter 7 mm Conductor cross section Shielding Bending radius Flexible use Stationary position Drag chain operation Drag chain operation Bending cycles Nominal voltage, cable Reference voltage 30 V AC 30 V DC	Connector material	TPU
Seal material FKM Tightening torque 0.6 Nm Width across flats 13 Cable 10 m, 8-wire, PUR, halogen-free Jacket material Jacket color Black Cable diameter 7 mm Conductor cross section Shielding Bending radius Flexible use Stationary position Drag chain operation Drag chain operation Bending votes Nominal voltage, cable Test voltage, cable Reference voltage 30 V AC 30 V DC	Connector color	Black
Tightening torque Width across flats 13 Cable 10 m, 8-wire, PUR, halogen-free Jacket material Jacket color Black Cable diameter 7 mm Conductor cross section Shielding Bending radius Flexible use Stationary position Drag chain operation Drag chain operation Bending vycles Nominal voltage, cable Test voltage, cable Reference voltage 30 V AC 30 V DC	Locking nut material	Zinc die-cast, nickel-plated
Width across flats Cable 10 m, 8-wire, PUR, halogen-free Jacket material PUR, halogen-free Jacket color Black Cable diameter 7 mm Conductor cross section 0.25 mm² Shielding Shielded Bending radius Flexible use Stationary position Drag chain operation Drag chain operation Bending cycles 5,000,000 Nominal voltage, cable 300 V AC Test voltage, cable 30 V AC Reference voltage 30 V AC 30 V AC 30 V AC	Seal material	FKM
Cable Jacket material Jacket color Black Cable diameter Conductor cross section Shielding Bending radius Flexible use Stationary position Drag chain operation Bending cycles Nominal voltage, cable Test voltage, cable Reference voltage 10 m, 8-wire, PUR, halogen-free PUR, halogen	Tightening torque	0.6 Nm
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 30 V AC 30 V DC	Width across flats	13
Jacket color Black Cable diameter 7 mm Conductor cross section 0.25 mm² Shielding Shielded Bending radius Flexible use Stationary position Drag chain operation > 10 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 30 V AC 30 V AC 30 V DC	Cable	10 m, 8-wire, PUR, halogen-free
Cable diameter Conductor cross section Shielding Shielded Bending radius Flexible use Stationary position Drag chain operation Drag chain operation Prest voltage, cable Test voltage, cable Reference voltage 30 V AC 30 V DC	Jacket material	PUR, halogen-free
Conductor cross section Shielding Bending radius Flexible use Stationary position Drag chain operation Drag chain operation Shool,000 Nominal voltage, cable Test voltage, cable Reference voltage 30 V AC 30 V DC	Jacket color	Black
Shielding Bending radius Flexible use Stationary position Drag chain operation Drag chain operation Shoon,000 Nominal voltage, cable Test voltage, cable Reference voltage 30 V AC 30 V DC	Cable diameter	7 mm
Flexible use Stationary position Drag chain operation Solution Sol	Conductor cross section	0.25 mm ²
Flexible use Stationary position Drag chain operation Bending cycles Nominal voltage, cable Test voltage, cable 300 V AC Reference voltage 30 V AC 30 V DC	Shielding	Shielded
Stationary position Drag chain operation Stationary position Drag chain operation Drag chain	Bending radius	
Drag chain operation > 10 x cable diameter 5,000,000 Nominal voltage, cable 300 V AC Test voltage, cable 2,000 V AC Reference voltage 30 V AC 30 V AC 30 V DC	Flexible use	> 10 x cable diameter
Bending cycles 5,000,000 Nominal voltage, cable 300 V AC Test voltage, cable 2,000 V AC Reference voltage 30 V AC 30 V DC	Stationary position	> 5 x cable diameter
Nominal voltage, cable Test voltage, cable 2,000 V AC Reference voltage 30 V AC 30 V AC 30 V AC 30 V DC	Drag chain operation	> 10 x cable diameter
Test voltage, cable Reference voltage 30 V AC 30 V DC	Bending cycles	5,000,000
Reference voltage 30 V AC 30 V DC	Nominal voltage, cable	300 V AC
30 V AC 30 V DC	Test voltage, cable	2,000 V AC
30 V DC	Reference voltage	
		30 V AC
Rated impulse voltage 0.8 kV		30 V DC
	Rated impulse voltage	0.8 kV

Current loading	≤ 2 A
Traversing speed	3.3 m/s
Travelling distance	5 m
Acceleration	≤ 5 m/s²
Signal type	Sensor/actuator cable
Torsion force	30°/1m
Torsion cycles	2,000,000
Cycles per minutes	35
Application	Zones with oils and lubricants Drag chain operation
Authorizations	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 Section 1090 (H), CSA FT2 / IEC 60332-2-2

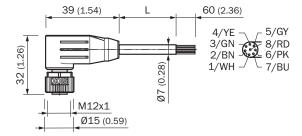
Classifications

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))



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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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