

YG8U14-C60UA3M2A14

Sensor/actuator cable

PLUG CONNECTORS AND CABLES





Ordering information

Туре	Part no.
YG8U14-C60UA3M2A14	2096681

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



Detailed technical data

Technical specifications

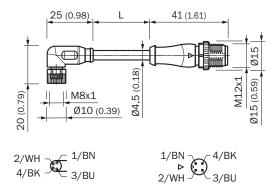
rechnical specifications	
Accessory group	Plug connectors and cables
Accessory family	Connection cables
Connection type head A	Female connector, M8, 4-pin, angled, A-coded
Connection type head B	Male connector, M12, 4-pin, straight, A-coded
Locking plug connector	Screw connection
Connector material	TPU
Connector color	Black
Locking nut material	Zinc die-cast, nickel-plated
Seal material	FKM
Tightening torque	0.4 Nm (M8), 0.6 Nm (M12)
Width across flats	9 (M8), 13 (M12)
Cable	0.6 m, 4-wire, PUR, halogen-free
Jacket material	PUR, halogen-free
Jacket color	Black
Cable diameter	4.5 mm
Conductor cross section	0.25 mm ²
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	
	50 V AC
	60 V DC
Rated impulse voltage	1.5 kV
Current loading	4 A
Traversing speed	3 m/s

Travelling distance 10 m/s² Acceleration 5 lo m/s² Signal type 5 censor/actuator cable Torsion force 180°/1m Torsion cycles 2,000,000 Cycles per minutes 35 Application Zones with oils and lubricants brag chain operation Robot Authorizations U UL File No. 335179 Enclosure rating 1965 / IP66K / IP67 Ambient operating temperature P65 / IP66K / IP67 Attationary position -25°C+80°C Stationary position -40°C+80°C Stationary position -25°C+80°C Contamination rating 3 Insulation resistance 100 MΩ Overvoltage category III Specific insulation resistance, piping Jame retardant according to UL 1581, horizontal flame test/CSA FT2 / IEC 60332-1, EC 60332-2-2		
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 UL UL File No. E335179 Enclosure rating IP65 / IP66K / IP67 Ambient operating temperature Flexible use Stationary position A0° C +80° C Orag chain operation Drag chain operation A0° C +80° C 25° C +80° 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,	Travelling distance	10 m
Torsion force 180° / 1 m Torsion cycles 2,000,000 Cycles per minutes 35 Application 25 Authorizations UL UL File No. E335179 Enclosure rating 1P65 / IP66K / IP67 Ambient operating temperature Flexible use Stationary position Drag chain operation Page chain operation Page chain operation Page chain operation Stationary force of Contamination rating 1 so MΩ Covervoltage category III Thermal resistance, piping 55 Example 180° / 1 m 2,000,000 2	Acceleration	≤ 10 m/s²
Torsion cycles Cycles per minutes Application Zones with oils and lubricants Drag chain operation Robot Authorizations UL UL File No. Enclosure rating Flexible use Stationary position Drag chain operation Nead Overvoltage category Thermal resistance, piping Sones with oils and lubricants Drag chain operation Robot UL 2,000,000 2,000,000 35 2,000,000 2,000,000 35 2,000,000 2,000,000 2,000,000 2,000,000	Signal type	Sensor/actuator cable
Cycles per minutes 35 Application Zones with oils and lubricants Drag chain operation Robot Authorizations UL UL File No. E335179 Enclosure rating IP65 / IP66K / IP67 Ambient operating temperature Flexible use -25 °C +80 °C -40 °C +80 °C -40 °C +80 °C -25 °C +80 °C -25 °C +80 °C -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,	Torsion force	180°/1 m
Application Zones with oils and lubricants Drag chain operation Robot Authorizations UL UL File No. E335179 Enclosure rating IP65 / IP66K / IP67 Ambient operating temperature Flexible use Stationary position Prag chain operation	Torsion cycles	2,000,000
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 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,	Cycles per minutes	35
UL File No. Enclosure rating P65 / P66K / P67 P66K	Application	Drag chain operation
Enclosure rating Ambient operating temperature Flexible use Stationary position Drag chain operation Head Contamination rating Insulation resistance Overvoltage category Thermal resistance, piping Flame retardant according to UL 1581, horizontal flame test/CSA FT2 / IEC 60332-1,	Authorizations	UL
Ambient operating temperature Flexible use Stationary position Drag chain operation Head Contamination rating Insulation resistance Overvoltage category 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 $-25 ^{\circ}\text{C} \dots +80 ^{\circ}\text{C}$ Orag chain operation $-25 ^{\circ}\text{C} \dots +80 ^{\circ}\text{C}$ Head $-25 ^{\circ}\text{C} \dots +80 ^{\circ}\text{C}$ Contamination rating $-25 ^{\circ}\text{C} \dots +85 ^{\circ}\text{C}$ Insulation resistance $-25 ^{\circ}\text{C} \dots +85 ^{\circ}\text{C}$ Overvoltage category III Specific insulation resistance $-25 ^{\circ}\text{C} \dots +85 ^{\circ}\text{C}$ Thermal resistance, piping Flame retardant according to UL 1581, horizontal flame test/CSA FT2 / IEC 60332-1,	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 $30~\text{m}\Omega$ Thermal resistance, piping Flame retardant according to UL 1581, horizontal flame test/CSA FT2 / IEC 60332-1,	Ambient operating temperature	
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 $30 \text{m}\Omega$ 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 °CContamination rating3Insulation resistance100 MΩOvervoltage categoryIIISpecific insulation resistance30 mΩThermal resistance, pipingFlame retardant according to UL 1581, horizontal flame test/CSA FT2 / IEC 60332-1,	Stationary position	-40 °C +80 °C
	Drag chain operation	-25 °C +80 °C
Insulation resistance $100 \text{ M}Ω$ Overvoltage category III Specific insulation resistance $30 \text{ m}Ω$ 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 $30 \text{ m}\Omega$ 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, M8 mounting key set for SW9 with calibrated torque 0.4 Nm	TOOL-TWO4M08AF09	5337207
	1 piece, M12 mounting key set for SW13 with calibrated torque 0.6 Nm	TOOL-TW06M12AF13	5337208

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