

YM2A18-050UA5XLEAX

Sensor/actuator cable

PLUG CONNECTORS AND CABLES





Ordering information

Туре	Part no.
YM2A18-050UA5XLEAX	2095869

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

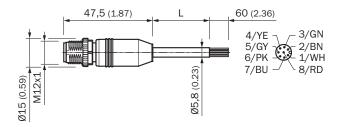
rediffical opecifications	
Accessory group	Plug connectors and cables
Accessory family	Connecting cables
Connection type head A	Male connector, M12, 8-pin, straight, A-coded
Connection type head B	Flying leads
Locking plug connector	Screw connection
Connector material	TPU
Connector color	Black
Locking nut material	Zinc die-cast, nickel-plated
Tightening torque	0.6 Nm
Width across flats	13
Cable	5 m, 8-wire, PUR, halogen-free
Jacket material	PUR, halogen-free
Jacket color	Black
Cable diameter	5.8 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	
	30 V AC
	30 V DC
Rated impulse voltage	0.8 kV
Current loading	2 A

Travelling distance 10 m Acceleration ≤ 10 m/s² 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 prag chain operation Robot Authorizations U. UL File No. E335179 Enclosure rating IP65 / IP66K / IP67 Ambient operating temperature -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 Thermal resistance, piping Flame retardant according to UL 1581, horizontal flame test/CSA FT2 / IEC 60332-1, IEC 60332-2-2		
Acceleration ≤ 10 m/s² Signal type Sensor/actuator cable Torsion force 180° / 1 m Zon00,000 Cycles per minutes 35 Application Zones with oils and lubricants Drag chain operation Robot UL UL File No. E335179 Enclosure rating IP65 / IP66K / IP67 Ambient operating temperature Flexible use Stationary position Drag chain operation Head Commination rating 3 Insulation resistance 100 MΩ Covervoltage category III Specific insulation resistance 30 mΩ Thermal resistance, piping Flame retardant according to UL 1581, horizontal flame test/CSA FT2 / IEC 60332-1,	Traversing speed	3 m/s
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 -25°C+80°C Drag chain operation Drag chain operation Head -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 2cones with oils and lubricants brag chain operation Robot 2cones with oils and lubricants brag chain operation Robot 2cones with oils and lubricants brag chain operation Robot 2cones with oils and lubricants 2cones with oils and	Acceleration	≤ 10 m/s²
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 -25 °C +80 °C Flexible use Stationary position Drag chain operation -40 °C +80 °C Drag chain operation -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 30 mΩ Thermal resistance, piping Flame retardant according to UL 1581, horizontal flame test/CSA FT2 / IEC 60332-1,	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 -25 °C +80 °C -25 °C +80 °C 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, 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 UL UL File No. Enclosure rating Plesible use Stationary position Drag chain operation Plesible use Plexible use Stationary position Drag chain operation Press oc +80 °C -40 °C +80 °C -25 °C +80 °C -25 °C +80 °C -25 °C +85 °C Contamination rating Insulation resistance Overvoltage category III Specific insulation resistance Thermal resistance, piping Jone Station operation Jone Stationary position Authorizants Jone Stationary position Plexible use -25 °C +80 °C -25 °C +80 °C -25 °C +85 °C Stationary position Plexible use -25 °C +85 °C Stationary position -40 °C +80 °C -25 °C +85 °C Stationary position -40 °C +80 °C -25 °C +85 °C Stationary position -40 °C +80 °C -25 °C +85 °C Stationary position -40 °C +80 °C -25 °C +85 °C Stationary position -40 °C +80 °C	Torsion cycles	2,000,000
Drag chain operation Robot Authorizations UL ULFile No. Enclosure rating Ambient operating temperature Flexible use Stationary position -40 °C +80 °C -25 °C +80 °C -25 °C +80 °C -25 °C +80 °C Contamination rating Insulation resistance Overvoltage category Specific insulation resistance Thermal resistance, piping Drag chain operation peration about 100 MΩ Flame retardant according to UL 1581, horizontal flame test/CSA FT2 / IEC 60332-1,	Cycles per minutes	35
UL File No. Enclosure rating IP65 / IP66K / IP67 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,	Application	Drag chain operation
Enclosure rating Ambient operating temperature Flexible use Stationary position Drag chain operation Head -25 °C +80 °C -40 °C +80 °C -25 °C +80 °C -25 °C +80 °C Contamination rating 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,	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 $-25 ^{\circ}\text{C} \dots + 80 ^{\circ}\text{C}$ $-40 ^{\circ}\text{C} \dots + 80 ^{\circ}\text{C}$ $-25 ^{\circ}\text{C} \dots + 80 ^{\circ}\text{C}$ $-25 ^{\circ}\text{C} \dots + 80 ^{\circ}\text{C}$ $-25 ^{\circ}\text{C} \dots + 85 ^{\circ}\text{C}$ $-25 ^{\circ}\text{C} \dots + 85 ^{\circ}\text{C}$ Contamination rating 3 Insulation resistance $100 \text{M}\Omega$ Uservoltage 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,	Enclosure rating	IP65 / IP66K / IP67
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	Ambient 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 Thermal resistance, piping Flame 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
	Head	-25 °C +85 °C
Overvoltage category III Specific insulation resistance 30 m Ω 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 \rightarrow 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		
Plug connectors and cables					
	 Connection type head A: Female connector, M12, 8-pin, straight Description: Unshielded Connection systems: Screw-type terminals Permitted cross-section: 0.25 mm² 0.5 mm² 	DOS-1208-G	6028422		
	 Connection type head A: Male connector, M12, 8-pin, straight Description: Unshielded Connection systems: Screw-type terminals Permitted cross-section: 0.25 mm² 0.5 mm² Note: For field bus technology 	STE-1208-G	6033269		

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Comprehensive services complete our offering: SICK LifeTime Services provide support throughout the machine life cycle and ensure safety and productivity.

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