

YM2A18-020UA5XLEAX

Sensor/actuator cable



YM2A18-020UA5XLEAX | Sensor/actuator cable



Ordering information

Туре	Part no.
YM2A18-020UA5XLEAX	2095868

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

Connection type head A Male connector, M12, 8-pin, straight, A-coded Connector 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 2 m, 8-wire, PUR, halogen-free Jacket material PUR, halogen-free Jacket color Black Cable diameter 5.8 mm Conductor cross section 0.25 mm² Shielding Unshielded Bending radius Flexible use Stationary position Drag chain operation > 10 x cable diameter Stationary position Para chain operation Drag chain operation > 10 x cable diameter Son value diameter > 10 x cable diameter Stationary position Para chain operation > 10 x cable diameter Stationary position Para chain operation > 20 x cable diameter Son value diameter > 30 x cable diameter Stationary position Para chain operation > 30 x cable diameter Son value diameter > 30 x cable diameter Son value diameter > 30 x cable diameter Son value diameter > 30 x cable diameter <t< th=""><th>rediffical opedifications</th><th></th></t<>	rediffical opedifications	
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 2 m, 8-wire, PUR, halogen-free Jacket material PUR, halogen-free Jacket color Black Cable diameter 5.8 mm Conductor cross section 0.25 mm² Shielding Unshielded Bending radius Plox cable diameter Stationary position Drag chain operation > 5 x cable diameter Stationary position Drag chain operation > 10 x cable diameter Stationary position Drag chain operation > 10 x cable diameter Stationary position Drag chain operation > 10 x cable diameter Stationary position Drag chain operation > 10 x cable diameter Stationary position Drag chain operation > 10 x cable diameter Stationary position Drag chain operation > 10 x cable diameter Stationary position Drag chain operation > 10 x cable diameter Stationary position Drag	Connection type head A	Male connector, M12, 8-pin, straight, A-coded
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Connector color Locking nut material Tightening torque 0.6 Nm Width across flats 13 Cable 2 m, 8-wire, PUR, halogen-free Jacket material PUR, halogen-free Jacket color Black Cable diameter Conductor cross section Shielding Unshielded 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 Rated impulse voltage Current loading Traversing speed 10.6 Nm 2 m, 8-wire, PUR, halogen-free Black 2 m, 8-wi	Locking plug connector	Screw connection
Locking nut material Zinc die-cast, nickel-plated Tightening torque 0.6 Nm Width across flats 13 Cable 2 m, 8-wire, PUR, halogen-free Jacket material PUR, halogen-free Jacket color Black Cable diameter 5.8 mm Conductor cross section 0.25 mm² Shielding Unshielded Bending radius > 10 x cable diameter Stationary position > 5 x cable diameter > 5 x cable diameter > 10 x cable diameter Stationary position > 10 x cable diameter Stationary position > 10 x cable diameter Place of the properties of the pr	Connector material	TPU
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Width across flats 13 Cable 2 m, 8-wire, PUR, halogen-free Jacket material PUR, halogen-free Jacket color Black Cable diameter 5.8 mm Conductor cross section 0.25 mm² Shielding Unshielded Bending radius Flexible use Stationary position > 5 x cable diameter Drag chain operation > 10 x cable diameter Bending cycles 10,000,000 Nominal voltage, cable 30 V AC Test voltage, cable 2,500 V AC Reference voltage 30 V AC 30 V DC 30 V DC Rated impulse voltage 0.8 kV Current loading 2 A Traversing speed 3 m/s	Locking nut material	Zinc die-cast, nickel-plated
Cable 2 m, 8-wire, PUR, halogen-free Jacket material PUR, halogen-free Jacket color Black Cable diameter 5.8 mm Conductor cross section 0.25 mm² Shielding Unshielded Bending radius Flexible use Stationary position Drag chain operation > 10 x cable diameter Drag chain operation > 10 x cable diameter Nominal voltage, cable 10,000,000 Reference voltage 30 V AC 30 V AC 30 V DC Rated impulse voltage 0.8 kV Current loading 2 A Traversing speed 3 m/s	Tightening torque	0.6 Nm
Jacket material Jacket color Cable diameter Conductor cross section Shielding Bending radius Flexible use Stationary position Drag chain operation Drag chain operation Perference voltage 30 V AC 30 V DC Rated impulse voltage Current loading PUR, halogen-free Black 5.8 mm 0.25 mm² Unshielded Unshielded Variable diameter > 10 x cable diameter 10 x cable diameter 10 x	Width across flats	13
Jacket color Cable diameter 5.8 mm Conductor cross section 0.25 mm² Unshielded Bending radius Flexible use Stationary position Drag chain operation Drag chain operation Pertology of the Stationary position of	Cable	2 m, 8-wire, PUR, halogen-free
Cable diameter 5.8 mm Conductor cross section 0.25 mm² Shielding Unshielded Bending radius Flexible use Stationary position Pag chain operation > 10 x cable diameter Drag chain operation Drag chain operation Page Cable Stationary position Page Cable Stationary position Page Cable Stationary position Page Cable Stationary position Page Stationary position Page Stationary position Page Cable Stationary position Page Stationary page Stationary position Page Stationary	Jacket material	PUR, halogen-free
Conductor cross section 0.25 mm² Shielding Unshielded Bending radius > 10 x cable diameter Stationary position Drag chain operation Prag chain operation Drag chain operation 200,000,000 > 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 30 V DC Rated impulse voltage 0.8 kV Current loading 2 A Traversing speed 3 m/s	Jacket color	Black
Shielding Bending radius Flexible use Stationary position Drag chain operation Drag chain operation Bending cycles 10,000,000 Nominal voltage, cable Test voltage, cable Reference voltage 30 V AC 30 V AC 30 V DC Rated impulse voltage Current loading Traversing speed Unshielded > 10 x cable diameter > 5 x cable diameter > 10 x cable diameter > 10 x cable diameter > 10 x cable diameter	Cable diameter	5.8 mm
Bending radius Flexible use Stationary position Drag chain operation Drag chain operation Bending cycles 10,000,000 Nominal voltage, cable Test voltage, cable 300 V AC Reference voltage 30 V AC Rated impulse voltage 0.8 kV Current loading Traversing speed > 10 x cable diameter > 10,000,000 300 V AC 2,500 V AC 0.8 kV 2 A 3 m/s	Conductor cross section	0.25 mm ²
Flexible use Stationary position > 5 x cable diameter > 5 x cable diameter > 10 x cable diameter Drag chain operation > 10 x cable diameter 10,000,000 Nominal voltage, cable	Shielding	Unshielded
Stationary position Drag chain operation Bending cycles 10,000,000 Nominal voltage, cable Test voltage, cable 2,500 V AC Reference voltage 30 V AC 30 V DC Rated impulse voltage 0.8 kV Current loading Traversing speed > 5 x cable diameter > 10,000,000 300 V AC 2,500 V AC 2,500 V AC	Bending radius	
Bending cycles 10,000,000 Nominal voltage, cable 300 V AC Test voltage, cable 2,500 V AC Reference voltage 30 V DC Rated impulse voltage 0.8 kV Current loading 2 A Traversing speed 30 m/s	Flexible use	> 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 30 V DC Rated impulse voltage 0.8 kV Current loading 2 A Traversing speed 3 m/s	Stationary position	> 5 x cable diameter
Nominal voltage, cable Test voltage, cable 2,500 V AC Reference voltage 30 V AC 30 V AC 30 V DC Rated impulse voltage 0.8 kV Current loading 2 A Traversing speed 30 N AC 30 N DC	Drag chain operation	> 10 x cable diameter
Test voltage, cable Reference voltage 30 V AC 30 V DC Rated impulse voltage 0.8 kV Current loading 2 A Traversing speed 2,500 V AC 30 V AC 30 V DC 30 V DC 30 V DC	Bending cycles	10,000,000
Reference voltage 30 V AC 30 V DC Rated impulse voltage 0.8 kV Current loading 2 A Traversing speed 3 m/s	Nominal voltage, cable	300 V AC
30 V AC 30 V DC Rated impulse voltage 0.8 kV Current loading 2 A Traversing speed 3 m/s	Test voltage, cable	2,500 V AC
30 V DC Rated impulse voltage 0.8 kV Current loading 2 A Traversing speed 3 m/s	Reference voltage	
Rated impulse voltage 0.8 kV Current loading 2 A Traversing speed 3 m/s		30 V AC
Current loading 2 A Traversing speed 3 m/s		30 V DC
Traversing speed 3 m/s		
	Current loading	
Travelling distance 10 m		3 m/s
	Travelling distance	10 m

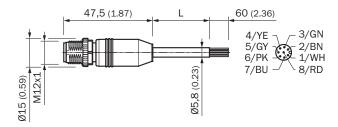
Acceleration	≤ 10 m/s²
Signal type	Sensor/actuator cable
Torsion force	180°/1m
Torsion cycles	2,000,000
Cycles per minutes	35
Application	Uncontaminated zones Zones with oils and lubricants Robot Drag chain operation
Authorizations	UL
UL File No.	E335179
Enclosure rating	IP65 / IP66K / IP67
Operating 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 ΜΩ
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, 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))



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		
Others					
	 Connection type head A: Male connector, M12, 8-pin, straight, A-coded 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		
	 Connection type head A: Female connector, M12, 8-pin, straight, A-coded Description: Unshielded Connection systems: Screw-type terminals Permitted cross-section: 0.25 mm² 0.5 mm² 	DOS-1208-G	6028422		

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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.

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

For us, that is "Sensor Intelligence."

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