

YI2A15-020UB5M2A15

Sensor/actuator cable

PLUG CONNECTORS AND CABLES





Ordering information

Туре	Part no.
YI2A15-020UB5M2A15	2096138

Only suitable for PNP sensors

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



Detailed technical data

Technical specifications

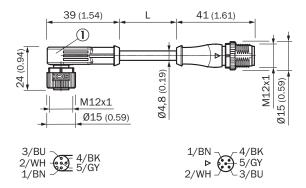
Connection type head A Female connector, M12, 5-pin, angled, A-coded Connector type head B Male connector, M12, 5-pin, straight, A-coded Locking plug connector Screw connection Connector material TPU Connector color Black Locking nut material Zinc die-cast, nickel-plated Seal material FKM Tightening torque 0.6 Nm Width across flats 13 Cable 2 m, 5-wire, PUR, halogen-free Jacket naterial PUR, halogen-free Jacket color Black Cable diameter 4.8 mm Conductor cross section 0.34 mm² Shelding Unshielded Bending radius > 10 x cable diameter Flexible use Stationary position Drag chain operation > 5 x cable diameter Display LED ✓ Nominal voltage, cable 300 ∨ AC Test voltage, cable 2,500 ∨ AC Reference voltage 24 ∨ DC Rated impulse voltage 0,8 kV Current loading ≤ 4 A Travesling speed 3 m/s Travelling distance 10 m	rediffical opecifications	
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 2 m, 5-wire, PUR, halogen-free Jacket material PUR, halogen-free Jacket color Black Cable dlameter 4,8 mm Conductor cross section 0,34 mm² Shielding Unshielded Bending radius > 10 x cable diameter Flexible use > 5 x cable diameter Stationary position > 10 x cable diameter 10 x cable diameter > 10 x cable diameter Pickible use > 5 x cable diameter 10 x cable diameter > 10 x cable diameter Pickible use > 2 x cable diameter 2 x cable diameter > 10 x cable diameter 2 x cable diameter > 10 x cable diameter 3 x cable diameter > 10 x cable diameter 2 x cable diameter > 10 x cable	Connection type head A	Female connector, M12, 5-pin, angled, A-coded
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 2 m, 5-wire, PUR, halogen-free Jacket material PUR, halogen-free Jacket color Black Cable diameter 4.8 mm Conductor cross section 0.34 mm² Shielding Unshielded Bending radius Flexible use Stationary position Paragchain operation > 5 x cable diameter Drag chain operation Paragchain Paragch	Connection type head B	Male connector, M12, 5-pin, straight, A-coded
Connector color Black Locking nut material Zinc die-cast, nickel-plated Seal material FKM Tightening torque 0.6 Nm Width across flats 13 Cable 2 m, 5-wire, PUR, halogen-free Jacket material PUR, halogen-free Jacket color Black Cable diameter 4.8 mm Conductor cross section 0.34 mm² Shielding Unshielded Bending radius Flexible use > 10 x cable diameter > 5 x cable diameter > 5 x cable diameter > 10 x cable diameter Stationary position Drag chain operation > 10 x cable diameter Display LED ✓ Nominal voltage, cable 300 V AC Test voltage, cable 2,500 V AC Reference voltage 24 V DC Rated impulse voltage 0.8 kV Current loading ≤ 4 A Traversing speed 3 m/s	Locking plug connector	Screw connection
Locking nut material Seal material FKM Tightening torque Width across flats 13 Cable 2 m, 5-wire, PUR, halogen-free Jacket material PUR, halogen-free Jacket color Black Cable diameter 4.8 mm Conductor cross section Shielding Bending radius Flexible use Stationary position Drag chain operation Drag chain operation Bending cycles Display LED V Nominal voltage, cable Test voltage, cable Reference voltage 24 ∨ DC Rated impulse voltage Current loading Traversing speed 24 A Traversing speed In Oon Nm 13 Cable diameter 10.60 Nm 13 Cable diameter 24 ∨ DC Rated impulse voltage 24 ∨ DC 3 m/s	Connector material	TPU
Seal material FKM Tightening torque 0.6 Nm Width across flats 13 Cable 2 m, 5-wire, PUR, halogen-free Jacket material PUR, halogen-free Jacket color Black Cable diameter 4.8 mm Conductor cross section 0.34 mm² Shielding Unshielded Bending radius Flexible use Stationary position Drag chain operation > 10 x cable diameter Drag chain operation > 10 x cable diameter 10,000,000 > 10 x cable diameter Pominal voltage, cable 300 ∨ AC Test voltage, cable 2,500 ∨ AC Reference voltage 24 ∨ DC Rated impulse voltage 0.8 kV Current loading ≤ 4 A Traversing speed 3 m/s	Connector color	Black
Tightening torque Width across flats 13 Cable 2 m, 5-wire, PUR, halogen-free PUR, halogen-free PUR, halogen-free Black Cable diameter 4.8 mm Conductor cross section Shielding Bending radius Flexible use Stationary position Drag chain operation Drag chain operation Bending cycles Display LED Nominal voltage, cable Test voltage, cable Reference voltage 24 ∨ DC Rated impulse voltage Current loading Traversing speed 2 m, 5-wire, PUR, halogen-free PUR, halogen-fr	Locking nut material	Zinc die-cast, nickel-plated
Width across flats Cable 2 m, 5-wire, PUR, halogen-free PUR, halogen-free PUR, halogen-free Black 4.8 mm Conductor cross section Shielding Bending radius Flexible use Stationary position Drag chain operation Drag chain operation Plexible use Stationary operation Drag chain operation Drag chain operation Bending cycles Display LED V Nominal voltage, cable Test voltage, cable Reference voltage 24 ∨ DC Rated impulse voltage Current loading 5 x wire, PUR, halogen-free 2 m, 5-wire, PUR, halogen-free 9 Dlack 4.8 mm 0.34 mm² Unshielded Unshielded 10,024 diameter > 10 x cable diameter > 1	Seal material	FKM
Cable 2 m, 5-wire, PUR, halogen-free Jacket material PUR, halogen-free Jacket color Black Cable diameter 4.8 mm Conductor cross section 0.34 mm² Shielding Unshielded Bending radius Flexible use Stationary position Drag chain operation > 10 x cable diameter Drag chain operation > 10 x cable diameter > 10 x cable diameter > 10 x cable diameter Noming votles 10,000,000 Display LED ✓ Nominal voltage, cable 300 V AC Test voltage, cable 2,500 V AC Reference voltage 24 V DC Rated impulse voltage 0.8 kV Current loading ≤ 4 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 Display LED Nominal voltage, cable Test voltage, cable Reference voltage Current loading Traversing speed PUR, halogen-free Black 4.8 mm 0.34 mm² Unshielded Unshielded > 10 x cable diameter > 5 x cable diameter > 10 x cable diameter > 10 x cable diameter > 10 x cable diameter > 10 x cable diameter > 10 x cable diameter > 10 x cable diameter > 10 x cable diameter > 10 x cable diameter > 10 x cable diameter > 10 x cable diameter > 10 x cable diameter > 10 x cable diameter > 10 x cable diameter > 10 x cable diameter > 10 x cable diameter > 10 x cable diameter > 10 x cable diameter > 10 x cable diameter > 10 x cable diameter > 10 x cable diameter > 10 x cable diameter > 10 x cable diameter > 10 x cable diameter > 10 x cable diameter > 10 x cable diameter > 10 x cable diameter > 10 x cable diameter > 10 x cable diameter > 10 x cable diameter > 10 x cable diameter > 10 x cable diameter > 10 x cable diameter > 10 x cable diameter > 10 x cable diameter > 10 x cable diameter > 10 x cable diameter > 10 x cable diameter > 10 x cable diameter > 10 x cable diameter > 10 x cable diameter > 10 x cable diameter > 10 x cable diameter > 10 x cable diameter > 10 x cable diameter > 10 x cable diameter > 10 x cable diameter > 10 x cable diameter > 10 x cable diameter > 10 x cable diameter > 10 x cable diameter > 10 x cable diameter > 10 x cable diameter > 10 x cable diameter > 10 x cable diameter > 10 x cable diameter > 10 x cable diameter > 10 x cable diameter > 10 x cable diameter > 10 x cable diameter > 10 x cable diameter > 10 x cable diameter > 10 x cable diameter > 10 x cable diameter > 10 x cable diameter > 10 x cable diameter > 10 x cable diameter > 10 x cable diameter > 10 x cable diameter > 10 x cable diameter > 10 x cable diameter > 10 x cable diameter > 10 x cable d	Width across flats	13
Jacket color Black Cable dlameter 4.8 mm Conductor cross section 0.34 mm² Shielding Unshielded Bending radius > 10 x cable diameter Stationary position > 5 x cable diameter Drag chain operation > 10 x cable diameter Bending cycles 10,000,000 Display LED ✓ Nominal voltage, cable 300 V AC Test voltage, cable 2,500 V AC Reference voltage 24 V DC Rated impulse voltage 0.8 kV Current loading ≤ 4 A Traversing speed 3 m/s	Cable	2 m, 5-wire, PUR, halogen-free
Cable diameter Conductor cross section Shielding Bending radius Flexible use Stationary position Drag chain operation Bending cycles Display LED Nominal voltage, cable Test voltage, cable Reference voltage 24 ∨ DC Rated impulse voltage Current loading Traversing speed 24 × M Nominal voltage, cable 24 × M Nominal voltage 24 × M Nominal voltage 24 × M Nominal voltage 30.8 × W 4 A 3 m/s	Jacket material	PUR, halogen-free
Conductor cross section 0.34 mm² Shielding Unshielded Bending radius > 10 x cable diameter Stationary position Drag chain operation Program operation Drag chain Drag c	Jacket color	Black
Shielding Unshielded Bending radius > 10 x cable diameter Stationary position Drag chain operation > 5 x cable diameter Bending cycles 10,000,000 Display LED ✓ Nominal voltage, cable 300 V AC Test voltage, cable 2,500 V AC Reference voltage 24 V DC Rated impulse voltage 0.8 kV Current loading ≤ 4 A Traversing speed 3 m/s	Cable diameter	4.8 mm
Bending radius Flexible use Stationary position Drag chain operation Bending cycles Display LED Nominal voltage, cable Test voltage, cable Reference voltage 24 ∨ DC Rated impulse voltage Current loading Traversing speed > 10 x cable diameter > 5 x cable diameter > 10,000,000 ✓ 300 ∨ AC 2,500 ∨ AC 24 ∨ DC 0.8 kV ≤ 4 A 3 m/s	Conductor cross section	0.34 mm ²
Flexible use Stationary position Drag chain operation Bending cycles Display LED Nominal voltage, cable Test voltage, cable Reference voltage Current loading Traversing speed > 10 x cable diameter	Shielding	Unshielded
Stationary position Drag chain operation Drag chain operation Bending cycles Display LED Nominal voltage, cable Test voltage, cable Reference voltage 24 ∨ DC Rated impulse voltage Current loading Traversing speed > 5 x cable diameter > 10,000,000 ✓ 0,000 ✓ 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Bending radius	
Drag chain operation > 10 x cable diameter Bending cycles 10,000,000 Display LED ✓ Nominal voltage, cable 300 V AC Test voltage, cable 2,500 V AC Reference voltage 24 V DC Rated impulse voltage 0.8 kV Current loading ≤ 4 A Traversing speed 3 m/s	Flexible use	> 10 x cable diameter
Bending cycles Display LED Nominal voltage, cable Test voltage, cable 2,500 ∨ AC Reference voltage 24 ∨ DC Rated impulse voltage Current loading Traversing speed 10,000,000 ✓ 000 300 ∨ AC 2,500 ∨ AC 24 ∨ DC 300 ∨ AC 300 ∨ AC 300 ∨ AC 300 ∨ AC	Stationary position	> 5 x cable diameter
Display LED ✓ Nominal voltage, cable 300 V AC Test voltage, cable 2,500 V AC Reference voltage 24 V DC Rated impulse voltage 0.8 kV Current loading ≤ 4 A Traversing speed 3 m/s	Drag chain operation	> 10 x cable diameter
Nominal voltage, cable 300 V AC Test voltage, cable 2,500 V AC Reference voltage 24 V DC Rated impulse voltage 0.8 kV Current loading ≤ 4 A Traversing speed 3 m/s	Bending cycles	10,000,000
Test voltage, cable Reference voltage 24 ∨ DC Rated impulse voltage 0.8 k∨ Current loading Traversing speed 2,500 ∨ AC 24 ∨ DC 3 m/s	Display LED	✓
Reference voltage 24 V DC Rated impulse voltage 0.8 kV Current loading ≤ 4 A Traversing speed 3 m/s	Nominal voltage, cable	300 V AC
24 V DC Rated impulse voltage 0.8 kV Current loading ≤ 4 A Traversing speed 3 m/s	Test voltage, cable	2,500 V AC
Rated impulse voltage 0.8 kV Current loading ≤ 4 A Traversing speed 3 m/s	Reference voltage	
Current loading ≤ 4 A Traversing speed 3 m/s		24 V DC
Traversing speed 3 m/s	Rated impulse voltage	0.8 kV
		≤ 4 A
Travelling distance 10 m	Traversing speed	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	Zones with oils and lubricants Drag chain operation Robot
Note	Only suitable for PNP sensors
Authorizations	UL
UL File No.	E335179
Enclosure rating	IP65 / IP66K / IP67
Description	LED function indicator
Specialty	LED function indicator
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

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, M12 mounting key set for SW13 with calibrated torque 0.6 Nm	T00L-TW06M12AF13	5337208	

SICK AT A GLANCE

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.

For us, that is "Sensor Intelligence."

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