

YF2A15-010UB5M2A15

Sensor/actuator cable



YF2A15-010UB5M2A15 | Sensor/actuator cable



Ordering information

Туре	Part no.
YF2A15-010UB5M2A15	2096007

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



Detailed technical data

Technical specifications

Connection type head A Female connector, M12, 5-pin, straight, A-coded Connection 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 Width across flats 13 Cable 1 m, 5-wire, PUR, halogen-free Jacket atterial 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 Stationary position Drag chain operation > 10 x cable diameter Stationary collision Processes 10,000,000 Nominal voltage, cable 125 V AC Reference voltage 125 V AC Reference voltage 125 V AC Rated impulse voltage 1 x kV Current loading 4 A Taversing speed	'	
Connector material Screw connection Connector color Black Locking nut material Zinc die-cast, nickel-plated Seal material FKM Tightening torque 0.6 Nm Width across flats 13 Cable 1 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 > 10 x cable diameter Stationary position > 5 x cable diameter So cable diameter > 10 x cable diameter Bending cycles 10,000,000 Nominal voltage, cable 2,50 x Cable diameter Test voltage, cable 2,50 v AC Reference voltage 125 v AC 125 v DC Rated impulse voltage 1,5 kV Current loading 4 A Travesling speed 3 m/s Tive welling distance	Connection type head A	Female connector, M12, 5-pin, straight, A-coded
Connector color Elack Locking nut material Zinc die-cast, nickel-plated Seal material FKM Tightening torque 0.6 Nm Width across flats 1 Cable 1 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 Stationary position > 5 x cable diameter Drag chain operation > 10 x cable diameter Shoulding cycles 10,000,000 Nominal voltage, cable 300 V AC Reference voltage 125 V AC 125 V DC Rated Impulse voltage 1.5 kV Current loading 4 A Traversing speed 10 m Travelling distance 10 m	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 1 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 > 10 x cable diameter Flexible us Stationary position > 10 x cable diameter Stationary position > 10 x cable diameter Proag chain operation > 10 x cable diameter Nominal voltage, cable 10,000,000 Reference voltage 2,500 v AC Test voltage, cable 125 v AC 125 v DC Rated impulse voltage 1.5 kV Current loading 4 A Traversing speed 3 m/s Travelling distance 10 m	Locking plug connector	Screw connection
Locking nut material Zinc die-cast, nickel-plated Seal material FKM Tightening torque 0.6 Nm Width across flats 13 Cable 1 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 Shelding Unshielded Bending radius > 10 x cable diameter Stationary position Drag chain operation > 5 x cable diameter 10 x cable diameter > 10 x cable diameter 10 x cable diameter > 10 x cable diameter 25 x cable diameter > 10 x cable diameter 25 x cable diameter > 10 x cable diameter 25 x valle diameter > 10 x cable diameter 25 x valle diameter > 10 x cable diameter 25 x valle diameter > 10 x cable diameter 25 x valle diameter > 10 x cable diameter 25 x valle diameter > 10 x cable diameter 25 x valle diameter > 10 x cable diameter 25 x valle diameter > 10 x cable diamete	Connector material	TPU
Seal material FKM Tightening torque 0.6 Nm Width across flats 13 Cable 1 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 Shelding Unshielded Bending radius Flexible use 5 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 125 V AC 125 V DC Rated impulse voltage 4 A Current loading 4 A Traversing speed 3 m/s Tavelling distance 10 m	Connector color	Black
Tightening torque 0.6 Nm Width across flats 13 Cable 1 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	Locking nut material	Zinc die-cast, nickel-plated
Width across flats 13 Cable 1 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 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 125 V AC 125 V DC Rated impulse voltage 1.5 kV Current loading 4 A Traversing speed 3 m/s Travelling distance 10 m	Seal material	FKM
Cable 1 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 > 10 x cable diameter Stationary position Drag chain operation > 5 x cable diameter Drag chain operation Drag chain operation > 10 x cable diameter Nominal voltage, cable 300 V AC Test voltage, cable 2,500 V AC Reference voltage 125 V AC 125 V DC Rated impulse voltage 1,5 kV Current loading 4 A Traversing speed 3 m/s Travelling distance 10 m	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 Shoulding voltage, cable Test voltage, cable Reference voltage Reference voltage Rated impulse voltage Current loading Traversing speed Tavelling distance PUR, halogen-free Black As mm As mm Conductor cross section 0.34 mm² Current loading PUR, halogen-free Black Black As mm Cas mm As mm² Current loading PUR, halogen-free Black Black As mm Conductor Cas mm As mm² As mm² As miss Plexible use As mm As cable diameter > 10 x cable diameter	Width across flats	13
Jacket color Black Cable diameter 4.8 mm Conductor cross section 0.34 mm² Shielding Unshielded Bending radius Flexible use Stationary position Paragchain operation Prag chain op	Cable	1 m, 5-wire, PUR, halogen-free
Cable diameter 4.8 mm Onductor cross section 0.34 mm² Shielding Unshielded Bending radius Flexible use Stationary position Drag chain operation Drag chain operation 2.000,000 Bending cycles 10,000,000 Nominal voltage, cable 300 V AC 2.500 V AC Test voltage, cable 2.500 V AC Reference voltage 125 V AC 125 V DC Rated impulse voltage 1.5 kV Current loading 4 A Traversing speed 3 m/s Travelling distance 10 mm² Unshielded 1.5 kW One of the market of t	Jacket material	PUR, halogen-free
Conductor cross section 0.34 mm² Shielding Unshielded Bending radius > 10 x cable diameter Stationary position Drag chain operation Drag chain	Jacket color	Black
Shielding Bending radius Flexible use Stationary position Drag chain operation Bending cycles Nominal voltage, cable Test voltage Reference voltage Rated impulse voltage Current loading Traversing speed Travelling distance Lond x cable diameter > 5 x cable diameter > 5 x cable diameter > 5 x cable diameter > 10,000,000 10,000,000 10,000,000 10,000,00	Cable diameter	4.8 mm
Bending radius Flexible use Stationary position Drag chain operation Drag chain operation Drag chain operation Stationary Position Drag chain operation Drag chain operation Stationary Position Drag chain operation Stationary Position Position Stationary Position Pos	Conductor cross section	0.34 mm ²
Flexible use Stationary position Drag chain operation Bending cycles Nominal voltage, cable Test voltage Reference voltage 125 V AC 125 V DC Rated impulse voltage 1.5 kV Current loading Traverling distance > 10 x cable diameter > 10 x cable diameter > 10 x cable diameter > 10,000,000 300 V AC 2,500 V AC 2,500 V AC 125 V DC Rated impulse voltage 4 A 3 m/s 10 m	Shielding	Unshielded
Stationary position Drag chain operation Bending cycles 10,000,000 Nominal voltage, cable Test voltage, cable Reference voltage 125 V AC 125 V DC Rated impulse voltage 1.5 kV Current loading Traverling distance > 5 x cable diameter > 10,000,000 > 300 V AC 2,500 V AC 2,500 V AC 125 V DC 125 V DC 1.5 kV 4 A 3 m/s Travelling distance 10 m	Bending radius	
Drag chain operation > 10 x cable diameter 10,000,000 Nominal voltage, cable 2,500 V AC Reference voltage 125 V AC 125 V DC Rated impulse voltage 1.5 kV Current loading Traversing speed 3 m/s Travelling distance 100 000000000000000000000000000000000	Flexible use	> 10 x cable diameter
Bending cycles10,000,000Nominal voltage, cable300 V ACTest voltage, cable2,500 V ACReference voltage125 V AC 125 V DCRated impulse voltage1.5 kVCurrent loading4 ATraversing speed3 m/sTravelling distance10 m	Stationary position	> 5 x cable diameter
Nominal voltage, cable Test voltage, cable Reference voltage 125 V AC 125 V DC Rated impulse voltage 1.5 kV Current loading Traversing speed 3 m/s Travelling distance 300 V AC 2,500 V AC 125 V AC 125 V AC 125 V DC 1.5 kV 1.5 kV 1.5 kV 1.5 kV 1.5 kV 1.5 kV	Drag chain operation	> 10 x cable diameter
Test voltage, cable Reference voltage 125 V AC 125 V DC Rated impulse voltage 1.5 kV Current loading 4 A Traversing speed 3 m/s Travelling distance 2,500 V AC	Bending cycles	10,000,000
Reference voltage 125 V AC 125 V DC Rated impulse voltage 1.5 kV Current loading 4 A Traversing speed 3 m/s Travelling distance 10 m	Nominal voltage, cable	300 V AC
125 V AC 125 V DC Rated impulse voltage 1.5 kV Current loading 4 A Traversing speed 3 m/s Travelling distance 10 m	Test voltage, cable	2,500 V AC
125 V DC Rated impulse voltage 1.5 kV Current loading 4 A Traversing speed 3 m/s Travelling distance 10 m	Reference voltage	
Rated impulse voltage 1.5 kV Current loading 4 A Traversing speed 3 m/s Travelling distance 10 m		125 V AC
Current loading4 ATraversing speed3 m/sTravelling distance10 m		
Traversing speed 3 m/s Travelling distance 10 m		
Travelling distance 10 m		
Acceleration ≤ 10 m/s²		10 m
	Acceleration	≤ 10 m/s²

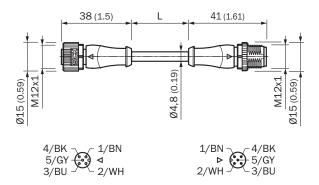
Signal type	Sensor/actuator cable
Torsion force	180°/1m
Torsion cycles	2,000,000
Cycles per minutes	35
Application	Uncontaminated zones Zones with oils and lubricants Robot Drag chain operation
Authorizations	CE UL
UL File No.	E335179
Enclosure rating	IP65 / IP66K / IP67
Operating temperature	
Flexible 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 → www.sick.com/Sensor_actuator_cable

	Brief description	Туре	Part no.
Other mountin			
	1 piece, M12 mounting key set for SW13 with calibrated torque 0.6 Nm	TOOL-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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