

YF2A25-015UB6XLEAX

Sensor/actuator cable





Ordering information

Туре	Part no.
YF2A25-015UB6XLEAX	2095833

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



Detailed technical data

Technical specifications

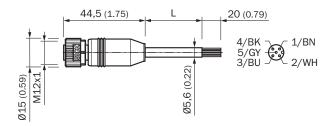
Connection type head B Female connector, M12, 5-pin, straight, A-coded Connection type head B Flying leads Locking plug connector Screw connection Connector material TPU Connector color Black Locking nut material Zinc die-cast, nickel-plated Seal material FKM Width across flats 13 Cable 1.5 m, 5-wire, PUR, halogen-free Jacket material PUR, halogen-free Jacket color Black Cable diameter 5.6 mm Conductor cross section 0.34 mm² Shielding Shielded Bending radius Flexible use, Stationary position Drag chain operation > 1.0 x cable diameter Stationary position Drag chain operation > 1.0 x cable diameter Should operation > 1.0 x cable diameter Status voltage, cable 6.0 V AC Gov AC 6.0 V AC Gov DC 6.0 V AC Gov DC Cathering to the properties of the		
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 1.5 m, 5-wire, PUR, halogen-free Jacket material PUR, halogen-free Jacket color Black Cable diameter 5.6 mm Conductor cross section 0.34 mm² Shielding Shielded Bending radius Flexible use > 10 x cable diameter Stationary position Drag chain operation Drag chain operation Prag	Connection type head A	Female 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 1.5 m, 5-wire, PUR, halogen-free Jacket material PUR, halogen-free Jacket color Black Cable diameter 5.6 mm Conductor cross section 0.34 mm² Shielding Shielded Bending radius Flexible use Stationary position Drag chain operation Prag chain operation P	Connection type head B	Flying leads
Connector color Black Locking nut material Zinc die-cast, nickel-plated Seal material FKM Tightening torque 0.6 Nm Width across flats 13 Cable 1.5 m, 5-wire, PUR, halogen-free Jacket material PUR, halogen-free Jacket color Black Cable diameter 5.6 mm Conductor cross section 0.34 mm² Shielding Shielded Bending radius Flexible use Stationary position Drag chain operation > 10 x cable diameter Drag chain operation > 5 x cable diameter Stownial voltage, cable 300 V AC Test voltage, cable 2,000 V AC Reference voltage 60 V AC 60 V AC 60 V DC Rated impulse voltage 1.5 kV Current loading 4 A	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 1.5 m, 5-wire, PUR, halogen-free Jacket material PUR, halogen-free Jacket color Black Cable diameter 5.6 mm Conductor cross section 0.34 mm² Shielding Shielded Bending radius Flexible use Stationary position Drag chain operation > 10 x cable diameter Drag chain operation > 10 x cable diameter Sough, One Nominal voltage, cable 300 v AC Test voltage, cable 2,000 v AC Reference voltage 60 v AC GO v DC Rated impulse voltage 1.5 kV Current loading 4 A	Connector material	TPU
Seal material FKM Tightening torque 0.6 Nm Width across flats 13 Cable 1.5 m, 5-wire, PUR, halogen-free Jacket material PUR, halogen-free Jacket color Black Cable diameter 5.6 mm Conductor cross section 0.34 mm² Shielding Shielded Bending radius Flexible use Stationary position Drag chain operation > 10 x cable diameter Drag chain operation > 10 x cable diameter Bending cycles 5,000,000 Nominal voltage, cable 300 V AC Test voltage, cable 2,000 V AC Reference voltage 60 V AC 60 V DC Rated impulse voltage 1.5 kV Current loading 4 A	Connector color	Black
Tightening torque 0.6 Nm Width across flats 13 Cable 1.5 m, 5-wire, PUR, halogen-free Jacket material PUR, halogen-free Jacket color Black Cable diameter 5.6 mm Conductor cross section 0.34 mm² Shielding Shielded Bending radius Flexible use Stationary position Drag chain operation > 5 x cable diameter Drag chain operation > 10 x cable diameter Shool,000 > 10 x cable diameter Shool,000 <t< th=""><th>Locking nut material</th><th>Zinc die-cast, nickel-plated</th></t<>	Locking nut material	Zinc die-cast, nickel-plated
Width across flats 13 Cable 1.5 m, 5-wire, PUR, halogen-free Jacket material PUR, halogen-free Jacket color Black Cable diameter 5.6 mm Conductor cross section 0.34 mm² Shielding Shielded Bending radius Flexible use Stationary position Drag chain operation > 10 x cable diameter Drag chain operation > 5 x cable diameter Nominal voltage, cable 5,000,000 Nominal voltage, cable 300 V AC Test voltage, cable 2,000 V AC Reference voltage 60 V AC 60 V DC 60 V DC Rated impulse voltage 1.5 kV Current loading 4 A	Seal material	FKM
Cable 1.5 m, 5-wire, PUR, halogen-free Jacket material PUR, halogen-free Jacket color Black Cable diameter 5.6 mm Conductor cross section 0.34 mm² Shielding Shielded Bending radius Flexible use Stationary position Drag chain operation > 10 x cable diameter Drag chain operation > 10 x cable diameter South diameter > 2,000,000 Nominal voltage, cable 2,000 V AC Test voltage, cable 2,000 V AC Reference voltage 60 V AC 60 V DC Rated impulse voltage 1.5 kV Current loading 4 A	Tightening torque	0.6 Nm
Jacket color Black Cable diameter 5.6 mm Conductor cross section O.34 mm² Shielding Bending radius Flexible use Stationary position Drag chain operation Drag chain operation Solon, O.000 Nominal voltage, cable Test voltage Reference voltage 60 V AC 60 V DC Rated impulse voltage Current loading PUR, halogen-free Black 5.6 mm 0.34 mm² Shielded > 10 x cable diameter > 5 x cable diameter > 10 x cable diameter >	Width across flats	13
Jacket color Cable diameter 5.6 mm Conductor cross section 0.34 mm² Shielding Bending radius Flexible use Stationary position Drag chain operation Drag chain operation Bending cycles Nominal voltage, cable Test voltage, cable Reference voltage 60 V AC 60 V DC Rated impulse voltage Current loading Black 5.6 mm D.34 mm² Shielded 5.0 x cable diameter 5 x x x x x x x x x x x x x x x x x x x	Cable	1.5 m, 5-wire, PUR, halogen-free
Cable diameter Conductor cross section Shielding Bending radius Flexible use Stationary position Drag chain operation Pending cycles Nominal voltage, cable Reference voltage 60 V AC 60 V DC Rated impulse voltage Current loading 5.6 mm 0.34 mm² Shielded 5.6 mm 0.34 mm² Shielded 5.6 mm 0.34 mm² Shielded 5.00 x cable diameter > 5 x cable diameter > 10 x cable diameter > 10 x cable diameter > 4 0 x cable diameter 5.000,000 60 V AC 60 V DC Rated impulse voltage 4 A	Jacket material	PUR, halogen-free
Conductor cross section Shielding Bending radius Flexible use	Jacket color	Black
Shielding Bending radius Flexible use Stationary position Drag chain operation Drag chain operation Shool,000 Nominal voltage, cable Test voltage, cable Reference voltage 60 V AC 60 V DC Rated impulse voltage Current loading Shielded > 10 x cable diameter > 5 x cable diameter > 10 x cable diameter > 5,000,000 300 V AC 2,000 V AC 60 V DC Rated impulse voltage 4 A	Cable diameter	5.6 mm
Bending radius Flexible use Stationary position Drag chain operation Drag chain operation Bending cycles Nominal voltage, cable Test voltage, cable Reference voltage 60 V AC 60 V DC Rated impulse voltage 1.5 kV Current loading Plexible use > 10 x cable diameter	Conductor cross section	0.34 mm ²
Flexible use Stationary position Drag chain operation Bending cycles Nominal voltage, cable Test voltage, cable Reference voltage 60 V AC 60 V DC Rated impulse voltage Current loading > 10 x cable diameter > 5 x cable diameter > 10 x cable diameter	Shielding	Shielded
Stationary position Drag chain operation Dr	Bending radius	
Drag chain operation > 10 x cable diameter 5,000,000 Nominal voltage, cable 300 V AC Test voltage, cable 2,000 V AC Reference voltage 60 V AC 60 V DC Rated impulse voltage 1.5 kV Current loading 4 A	Flexible use	> 10 x cable diameter
Bending cycles 5,000,000 Nominal voltage, cable 300 V AC Test voltage, cable 2,000 V AC Reference voltage 60 V AC 60 V DC 60 V DC Rated impulse voltage 1.5 kV Current loading 4 A	Stationary position	> 5 x cable diameter
Nominal voltage, cable 300 V AC Test voltage, cable 2,000 V AC Reference voltage 60 V AC 60 V DC 60 V DC Rated impulse voltage 1.5 kV Current loading 4 A	Drag chain operation	> 10 x cable diameter
Test voltage, cable 2,000 V AC Reference voltage 60 V AC 60 V DC Rated impulse voltage 1.5 kV Current loading 4 A	Bending cycles	5,000,000
Reference voltage 60 V AC 60 V DC Rated impulse voltage 1.5 kV Current loading 4 A	Nominal voltage, cable	300 V AC
60 V AC 60 V DC Rated impulse voltage 1.5 kV Current loading 4 A	Test voltage, cable	2,000 V AC
Rated impulse voltage 1.5 kV Current loading 4 A	Reference voltage	
Rated impulse voltage 1.5 kV Current loading 4 A		60 V AC
Current loading 4 A		60 V DC
	Rated impulse voltage	1.5 kV
Traversing speed 3.3 m/s	Current loading	4 A
	Traversing speed	3.3 m/s

Travelling distance 5 m Acceleration ≤ 5 m/s² Signal type Sensor/actuator cable Torsion force 30° / 1 m 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 UL File No. E335179 Enclosure rating IP65 / IP66K / IP67 Operating temperature Flexible use Stationary position -25 °C +80 °C Application -25 °C +80 °C
Signal type Sensor/actuator cable Torsion force 30° / 1 m 2,000,000 Cycles per minutes Application Uncontaminated zones Zones with oils and lubricants Robot Drag chain operation Authorizations CE UL UL File No. Enclosure rating Plessible use Stationary position Stationary position Sensor/actuator cable Authorizations Uncontaminated zones Zones with oils and lubricants Robot Drag chain operation CE UL 4. C
Torsion force 30° / 1 m 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 -40 °C +80 °C -40 °C +80 °C
Torsion cycles Cycles per minutes Application Uncontaminated zones Zones with oils and lubricants Robot Drag chain operation CE UL UL File No. Enclosure rating Operating temperature Flexible use Stationary position 2,000,000 2,000,000 Cycles per minutes Stationary position Uncontaminated zones Zones with oils and lubricants Robot Drag chain operation Enclosure rating UL CE UL UL Flexible use -25 °C +80 °C -40 °C +80 °C
Cycles per minutes Application Uncontaminated zones Zones with oils and lubricants Robot Drag chain operation CE UL UL File No. E335179 Enclosure rating Operating temperature Flexible use Stationary position 35 Uncontaminated zones Zones with oils and lubricants Robot Drag chain operation CE UL -25 °C +80 °C -40 °C +80 °C
Application Uncontaminated zones Zones with oils and lubricants Robot Drag chain operation CE UL UL File No. Enclosure rating Operating temperature Flexible use Stationary position Uncontaminated zones Zones with oils and lubricants Robot Drag chain operation CE UL UL Endows Price No. E335179 IP65 / IP66K / IP67 Operating temperature Flexible use -25 °C +80 °C -40 °C +80 °C
Zones with oils and lubricants Robot Drag chain operation Authorizations CE UL UL File No. Enclosure rating IP65 / IP66K / IP67 Operating temperature Flexible use Stationary position Flexible use -25 °C +80 °C -40 °C +80 °C
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Enclosure rating Operating temperature Flexible use -25 °C +80 °C Stationary position -40 °C +80 °C
Operating temperature Flexible use -25 °C +80 °C Stationary position -40 °C +80 °C
Flexible use -25 °C +80 °C Stationary position -40 °C +80 °C
Stationary position -40 °C +80 °C
Drag shair quarties QF °C 190 °C
Drag chain operation -25 °C +80 °C
Head -25 °C +85 °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 Section 1090 (H), CSA FT2 / 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	TOOL-TW06M12AF13	5337208		
Others					
	Connection type head A: Male connector, M12, 5-pin, straight, A-coded Description: Unshielded, Head A: male connector, M12, 5-pin, straight, unshielded, for cable diameter 4 mm 6 mm Head B: - Connection systems: Screw-type terminals Permitted cross-section: ≤ 0.75 mm² Note: For field bus technology	STE-1205-G	6022083		
	Connection type head A: Female connector, M12, 5-pin, straight, A-coded Description: Unshielded, Head A: female connector, M12, 5-pin, straight, unshielded, for cable diameter 4 mm 6 mm Head B: - Connection systems: Screw-type terminals Permitted cross-section: ≤ 0.75 mm²	DOS-1205-G	6009719		

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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