

YF2A14-050UB3XLEAX

Sensor/actuator cable





Ordering information

Туре	Part no.
YF2A14-050UB3XLEAX	2095608

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



Detailed technical data

Technical specifications

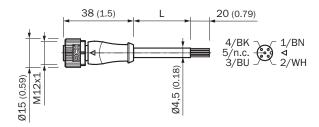
Connection type head B Female connector, M12, 4-pin, straight, A-coded Connection type head B Flying leads Locking plug connector Screw connection Connector material TPU Connector color Black Locking nut material Zinc die-cast, nickel-plated Seal material FKM Width across flats 13 Cable 5 m, 4-wire, PUR, halogen-free Jacket material PUR, halogen-free Jacket color Black Cable diameter 4.5 mm Conductor cross section 0.34 mm² Shielding Plexible use. Stationary position Drag chain operation > 10 x cable diameter Stationary position Drag chain operation > 10 x cable diameter Status voltage, cable 3.00 x 000 Nominal voltage, cable 3.00 x 000 Reference voltage 250 v AC 250 v DC Rated impulse voltage 2.5 kV Current loading 4 A Taversing speed 3 m/s		
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 5 m, 4-wire, PUR, halogen-free Jacket material PUR, halogen-free Jacket color Black Cable diameter 4.5 mm Conductor cross section 0.34 mm² Shelding Unshielded Bending radius > 10 x cable diameter Flexible use Stationary position Drag chain operation Drag chain operation Parage chain operation Stationary position Stationary position Parage, cable > 10 x cable diameter Bending cycles 1,0,000,000 Nominal voltage, cable 300 V AC Test voltage, cable 2,500 V AC Reference voltage 250 V AC 250 V DC Rated impulse voltage 2,5 kV Current loading 4 A	Connection type head A	Female connector, M12, 4-pin, straight, A-coded
Connector color Locking nut material FKM Seal material FKM Tightening torque 0.6 Nm Width across flats 13 Cable Jacket material PUR, halogen-free Jacket color Cable diameter Conductor cross section Shielding Bending radius Flexible use Stationary position Drag chain operation Drag chain operation Bending cycles Nominal voltage, cable Test voltage, cable Cate dimpulse voltage Current loading TPU Black Zinc die cast, nickel-plated FKM O.6 Nm 13 Sm. 4-wire, PUR, halogen-free PUR, halogen-free JBlack 4.5 mm 0.34 mm² Vunshielded Bending radius Flexible use Stationary position Drag chain operation Drag chain operation Stationary position Stationa	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 5 m, 4-wire, PUR, halogen-free Jacket material PUR, halogen-free Jacket color Black Cable diameter 4.5 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 > 5 x cable diameter Value 10,000,000 Nominal voltage, cable 300 V AC Test voltage, cable 2,500 V AC Reference voltage 250 V AC 250 V DC Rated impulse voltage 2.5 kV Current loading 4 A	Locking plug connector	Screw connection
Cocking nut material	Connector material	TPU
Seal material FKM Tightening torque 0.6 Nm Width across flats 13 Cable 5 m, 4-wire, PUR, halogen-free Jacket material PUR, halogen-free Jacket color Black Cable diameter 4.5 mm Conductor cross section 0.34 mm² Shielding Unshielded Bending radius Flexible use Stationary position Drag chain operation > 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 250 V AC 250 V DC Rated impulse voltage 2,5 kV Current loading 4 A	Connector color	Black
Tightening torque 0.6 Nm Width across flats 13 Cable 5 m, 4-wire, PUR, halogen-free Jacket material PUR, halogen-free Jacket color Black Cable diameter 4.5 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 > 10 x cable diameter Bending cycles 10,000,000 Nominal voltage, cable 300 V AC Test voltage, cable 2,500 V AC Reference voltage 250 V AC 250 V DC 2.5 kV Current loading 4 A	Locking nut material	Zinc die-cast, nickel-plated
Width across flats 13 Cable 5 m, 4-wire, PUR, halogen-free Jacket material PUR, halogen-free Jacket color Black Cable diameter 4.5 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 Nominal voltage, cable 10,000,000 Reference voltage 250 V AC 250 V DC 250 V DC Rated impulse voltage 2.5 kV Current loading 4 A	Seal material	FKM
Cable 5 m, 4-wire, PUR, halogen-free Jacket material PUR, halogen-free Black Cable diameter 4.5 mm Conductor cross section 0.34 mm² Shielding Unshielded Flexible use Stationary position Drag chain operation Drag chain operation 2.5 x cable diameter 10,000,000 Bending cycles 10,000,000 Nominal voltage, cable 300 V AC Test voltage, cable 2,500 V AC Reference voltage 250 V AC Rated impulse voltage 2.5 kV Current loading 4 A	Tightening torque	0.6 Nm
Jacket color Black Cable diameter 4.5 mm Conductor cross section O.34 mm² Shielding Bending radius Flexible use Stationary position Drag chain operation Drag chain operation Shominal voltage, cable Test voltage, cable Reference voltage 250 V AC 250 V DC Rated impulse voltage Current loading PUR, halogen-free Black 4.5 mm 0.34 mm² Unshielded 10.34 mm² 10.34 cable diameter > 5 x cable diameter > 10 x cable diameter > 10 x cable	Width across flats	13
Jacket color Cable diameter 4.5 mm Conductor cross section 0.34 mm² Unshielded 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 250 V AC 250 V DC Rated impulse voltage Current loading Black 4.5 mm	Cable	5 m, 4-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 250 V AC 250 V DC Rated impulse voltage Current loading 4.5 mm 0.34 mm² Unshielded 10,04 cable diameter > 5 x cable diameter > 10 x cable diameter > 25 x cable diameter > 10 x cable diameter > 10 x cable diameter > 250 V AC 250 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 Showninal voltage, cable Test voltage, cable Reference voltage 250 V AC 250 V DC Rated impulse voltage Current loading Unshielded > 10 x cable diameter > 5 x cable diameter > 10 x cable diameter > 25 x cable diameter	Cable diameter	4.5 mm
Bending radius Flexible use Stationary position Drag chain operation Drag chain operation Bending cycles 10,000,000 Nominal voltage, cable Test voltage, cable 2,500 V AC Reference voltage 250 V AC 250 V DC Rated impulse voltage 2.5 kV Current loading 4 A	Conductor cross section	0.34 mm ²
Flexible use Stationary position Drag chain operation Bending cycles 10,000,000 Nominal voltage, cable Test voltage, cable 2,500 V AC Reference voltage 250 V DC Rated impulse voltage Current loading > 10 x cable diameter > 5 x cable diameter > 10,000,000 300 V AC 2,500 V AC 2,500 V AC 250 V DC 4 A	Shielding	Unshielded
Stationary position Drag chain operation Drag chain	Bending radius	
Drag chain operation > 10 x cable diameter 10,000,000 Nominal voltage, cable 300 V AC Test voltage, cable 2,500 V AC Reference voltage 250 V AC Rated impulse voltage 2.5 kV Current loading 4 A	Flexible use	> 10 x cable diameter
Bending cycles	Stationary position	> 5 x cable diameter
Nominal voltage, cable Test voltage, cable 2,500 V AC Reference voltage 250 V AC 250 V DC Rated impulse voltage 2.5 kV Current loading 300 V AC 2,500 V AC 4 A	Drag chain operation	> 10 x cable diameter
Test voltage, cable Reference voltage 250 V AC 250 V DC Rated impulse voltage 2.5 kV Current loading 4 A	Bending cycles	10,000,000
Reference voltage 250 V AC 250 V DC Rated impulse voltage 2.5 kV Current loading 4 A	Nominal voltage, cable	300 V AC
250 V AC 250 V DC Rated impulse voltage 2.5 kV Current loading 4 A	Test voltage, cable	2,500 V AC
250 V DC Rated impulse voltage 2.5 kV Current loading 4 A	Reference voltage	
Rated impulse voltage 2.5 kV Current loading 4 A		250 V AC
Current loading 4 A		250 V DC
	Rated impulse voltage	2.5 kV
Traversing speed 3 m/s	Current loading	4 A
	Traversing speed	3 m/s

Tavelling distance 10 m/s² Acceleration \$ 10 m/s² Signal type Sensor/actuator cable Torsion force 180° / 1 m Torsion cycles 2,000,000 Cycles per minutes 35 Application Uncontaminated zones zones with oils and lubricants Robert oils and lubricants Anticants Anticants Robert oils and lubricants Robert oils anticants Robert oils anticants		
Signal type Sensor/actuator cable Torsion force 180° / 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 -25 °C +80 °C Stationary position Drag chain operation -40 °C +80 °C 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 Uncontaminated zones Zones with oils and lubricants Robot Drag chain operation Authorizations CE UL File No. E335179 Enclosure rating IP65 / IP66K / IP67 Operating temperature -25°C+80°C Stationary position Drag chain operation -25°C+80°C Authorization 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,	Acceleration	≤ 10 m/s²
Torsion cycles 2,000,000 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 Drag chain operation Possible use Stationary position Authorizations Flexible use Flexible use Stationary position Operating temperature Flexible use Stationary position Authorizations Flexible use Flexible use Stationary position Operating temperature Flexible use Stationary position Authorizations Flexible use Stationary position Operating temperature Flexible use Stationary position Authorization position Authorization position Operating temperature Flexible use Stationary position Authorization position Authorizations Flexible use Stationary position Authorization position Authorization position Authorization position Authorization position Authorization position Authorizations Authori	Signal type	Sensor/actuator cable
Cycles per minutes Application Uncontaminated zones Zones with oils and lubricants Robot Drag chain operation CE UL UL File No. E335179 Enclosure rating Plexible use Stationary position Drag chain operation Prag chain operation Cot +80 °C -25 °C +80 °C -25 °C +80 °C -25 °C +80 °C -25 °C +85 °C Contamination rating Insulation resistance 100 MΩ Overvoltage category III Specific insulation resistance Thermal resistance, piping Value Uncontaminated zones Zones with oils and lubricants Robot Drag chain operation CE UL UL CE UL UL 25 °C +80 °C -40 °C +80 °C -25 °C +85 °C An one Cottamination rating Cottamination rating Cottamination resistance III Specific insulation resistance Thermal resistance, piping Flame retardant according to UL 1581, horizontal flame test/CSA FT2 / IEC 60332-1,	Torsion force	180°/1m
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 Stationary position -40 °C +80 °C -40 °C +80 °C -25 °C +80 °C -25 °C +80 °C -25 °C +85 °C Contamination rating Insulation resistance 3 Insulation resistance Query Ull 100 MΩ Thermal resistance, piping Flame retardant according to UL 1581, horizontal flame test/CSA FT2 / IEC 60332-1,	Torsion cycles	2,000,000
AuthorizationsZones with oils and lubricants Robot Drag chain operationUL File No.E335179Enclosure ratingIP65 / IP66K / IP67Operating temperatureFlexible use Stationary position Drag chain operation $-25 ° C +80 ° C$ $-40 ° C +80 ° C$ Contamination rating3Insulation resistance $100 MΩ$ Overvoltage categoryIIISpecific insulation resistance, pipingFlame retardant according to UL 1581, horizontal flame test/CSA FT2 / IEC 60332-1,	Cycles per minutes	35
UL UL File No. Enclosure rating Operating temperature Flexible use Stationary position Drag chain operation Head Contamination rating Insulation resistance Overvoltage category Thermal resistance, piping E335179 IP65 / IP66K / IP67 P65 / IP66K / IP67 P66 / IP66 / IP67 P66 / IP66 / IP67 P66 / IP66 / IP67 P66 / IP67 P66 / IP66 / IP66 / IP66 / IP67 P66 / IP66 / IP6	Application	Zones with oils and lubricants Robot
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 MΩ Overvoltage category III Specific insulation resistance, piping Flame retardant according to UL 1581, horizontal flame test/CSA FT2 / IEC 60332-1,	Authorizations	
Operating temperature Flexible use -25 °C +80 °C Stationary position -40 °C +80 °C Drag chain operation -25 °C +80 °C -25 °C +85 °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,	UL File No.	E335179
Flexible use Stationary position $-25 ^{\circ}\text{C} \dots +80 ^{\circ}\text{C}$ Drag chain operation $-25 ^{\circ}\text{C} \dots +80 ^{\circ}\text{C}$ Head $-25 ^{\circ}\text{C} \dots +85 ^{\circ}\text{C}$ Contamination rating 3 Insulation resistance 100 M Ω 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,	Enclosure rating	IP65 / IP66K / IP67
Stationary position Drag chain operation Drag chain Dra	Operating temperature	
Drag chain operation Head -25 °C +80 °C -25 °C +85 °CContamination rating3Insulation resistance100 MΩOvervoltage categoryIIISpecific insulation resistance30 mΩThermal resistance, pipingFlame retardant according to UL 1581, horizontal flame test/CSA FT2 / IEC 60332-1,	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
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, horizontal flame test/CSA FT2 / IEC 60332-1,	Head	-25 °C +85 °C
Overvoltage 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,	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 → 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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