

YF2A28-100S01XLEAX

Sensor/actuator cable

PLUG CONNECTORS AND CABLES





Ordering information

Туре	Part no.
YF2A28-100S01XLEAX	2099605

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

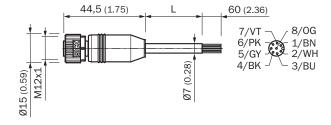
Connection type head B Female connector, M12, 8-pin, straight, A-coded Connection type head B Flying leads Locking plug connector Screw connection Connector material TPU Connector color Black Locking nut material Zinz die-cast, nickel-plated Seal material FKM Width across flats 13 Cable 10 m, 8-wire, PVC Cable diameter PVC Cable diameter 7 mm Conductor cross section 0.25 mm² Shielding Shielded Bending radius 200 v AC Reference voltage 300 v AC Reference voltage 300 v AC Reference voltage 30 v AC Rated impulse voltage 30 v AC Current loading 30 v AC Signal type Sensor/actuator cable Special feature Special color code Application Poecial color code Application Piexible use 5 *C +80 *C	•	
Connector material Screw connection Connector color Black Locking nut material Zinc die cast, nickel-plated Seal material FKM Tightening forque 0.6 Nm Width across flats 13 Cable 10 m, 8-wire, PVC Jacket material PVC Jacket color Gray Conductor cross section 0.25 mm² Shielding Shielded Bending radius > 10 x cable diameter Nominal voltage, cable 300 v AC Test voltage, cable 300 v AC Reference voltage 30 v V AC Reference voltage 30 v V AC Rated Impulse voltage 0.8 kV Current loading 2 A Signal type Sensor/actuator cable Special feature Special color code Application For Swith chemicals Enclosure rating IP65 / IP66K / IP67 Operating temperature	Connection type head A	Female connector, M12, 8-pin, straight, A-coded
Connector color Elack Locking nut material Zinc die-cast, nickel-plated Seal material FKM Tightening forque 0.6 Nm Width across flats 13 Cable 10 m, 8-wire, PVC Jacket color Gray Cable diameter 7 mm Conductor cross section 0.25 mm² Shielding Shielded Bending radius > 10 x cable diameter Nominal voltage, cable 300 V AC Test voltage, cable 300 V AC Reference voltage 30 V AC 30 V DC Rated impulse voltage 0.8 kV Current loading 2 A Signal type Sensor/actuator cable Special feature Special color code Application Pie5 / IP66K / IP67 Operating temperature IP65 / IP66K / IP67	Connection type head B	Flying leads
Connector color Locking nut material Seal material FKM Tightening torque 0.6 Nm Width across flats 13 Cable Jacket material PVC Jacket color Cable diameter Conductor cross section Shaiding Bending radius Stationary position Stationary positi	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 10 m, 8-wire, PVC Jacket material PVC Jacket color Gray Cable diameter 7 mm Conductor cross section 0.25 mm² Shelding Shelded Bending radius > 10 x cable diameter Nominal voltage, cable 300 V AC Test voltage, cable 2,000 V AC Reference voltage 30 V AC 30 V DC 30 V DC Rated impulse voltage 0.8 kV Current loading 2 A Signal type Sensor/actuator cable Special feature Special color code Application Zones with chemicals Enclosure rating IP65 / IP66K / IP67 Operating temperature IP65 / IP66K / IP67	Connector material	TPU
Seal material FKM Tightening torque 0.6 Nm Width across flats 13 Cable 10 m, 8-wire, PVC Jacket material PVC Jacket color Gray Cable diameter 7 mm Conductor cross section 0.25 mm² Shielding Shielded Bending radius \$10 x cable diameter Nominal voltage, cable 300 V AC Test voltage, cable 2,000 V AC Reference voltage 30 V AC Rated impulse voltage 0.8 kV Current loading 2 A Signal type Sensor/actuator cable Special feature Special color code Application Zones with chemicals Enclosure rating IP65 / IP66K / IP67 Operating temperature IP65 / IP66K / IP67	Connector color	Black
Tightening torque 0.6 Nm Width across flats 13 Cable 10 m, 8-wire, PVC Jacket material PVC Jacket color Gray Cable diameter 7 mm Conductor cross section 0.25 mm² Shielding Shielded Bending radius > 10 x cable diameter Nominal voltage, cable 300 V AC Test voltage, cable 2,000 V AC Reference voltage 30 V AC Rated impulse voltage 30 V AC Current loading 2 A Signal type Sensor/actuator cable Special feature Special color code Application Zones with chemicals Enclosure rating 1P65 / IP66K / IP67 Operating temperature	Locking nut material	Zinc die-cast, nickel-plated
Width across flats 13 Cable 10 m, 8-wire, PVC Jacket material PVC Jacket color Gray Cable diameter 7 mm Conductor cross section 0.25 mm² Shielding Shielded Bending radius > 10 x cable diameter Nominal voltage, cable 300 V AC Test voltage, cable 2,000 V AC Reference voltage 30 V AC Rated impulse voltage 30 V AC Current loading 2 A Signal type Sensor/actuator cable Special feature Special color code Application Zones with chemicals Enclosure rating 1P65 / IP66K / IP67 Operating temperature	Seal material	FKM
Cable 10 m, 8-wire, PVC Jacket material PVC Jacket color Gray Cable diameter 7 mm Conductor cross section 0.25 mm² Shielding Shielded Bending radius > 10 x cable diameter Nominal voltage, cable 300 V AC Test voltage, cable 2,000 V AC Reference voltage 30 V AC 30 V DC Rated impulse voltage 0.8 kV Current loading 2 A Signal type Sensor/actuator cable Special feature Special color code Application Zones with chemicals Enclosure rating IP65 / IP66K / IP67 Operating temperature P0.25 mm²	Tightening torque	0.6 Nm
Jacket material PVC Jacket color Gray Cable diameter 7 mm Conductor cross section 0.25 mm² Shielding Shielded Bending radius > 10 x cable diameter Nominal voltage, cable 300 V AC Test voltage, cable 2,000 V AC Reference voltage 30 V AC 30 V DC Rated impulse voltage 0.8 kV Current loading 2 A Signal type Sensor/actuator cable Special feature Special color code Application Zones with chemicals Enclosure rating IP65 / IP66K / IP67 Operating temperature	Width across flats	13
Jacket color Gray Cable diameter 7 mm Conductor cross section 0.25 mm² Shielding Shielded Bending radius \$10 x cable diameter Nominal voltage, cable 300 V AC Test voltage, cable 2,000 V AC Reference voltage 30 V AC 30 V AC 30 V DC Rated impulse voltage 0.8 kV Current loading 2 A Signal type Sensor/actuator cable Special feature Special color code Application Zones with chemicals Enclosure rating IP65 / IP66K / IP67 Operating temperature	Cable	10 m, 8-wire, PVC
Cable diameter 7 mm Conductor cross section 0.25 mm² Shielding Shielded Bending radius > 10 x cable diameter Nominal voltage, cable 300 V AC Test voltage, cable 2,000 V AC Reference voltage 30 V AC 30 V DC 30 V DC Rated impulse voltage 0.8 kV Current loading 2 A Signal type Sensor/actuator cable Special feature Special color code Application Zones with chemicals Enclosure rating IP65 / IP66K / IP67 Operating temperature IP65 / IP66K / IP67	Jacket material	PVC
Conductor cross section Shielding Bending radius Stationary position Nominal voltage, cable Test voltage, cable Reference voltage 30 V AC 30 V AC 30 V DC Rated Impulse voltage Current loading Signal type Special feature Application Enclosure rating Operating temperature 0.25 mm² Shielded Siphal deadure Stationary position Stationary position Stationary position Siphal diameter Suo X ac Siphal diameter Suo X AC Suo	Jacket color	Gray
Shielding Bending radius Stationary position Nominal voltage, cable Test voltage, cable Reference voltage Rated impulse voltage Current loading Signal type Special feature Application Enclosure rating Operating temperature Stationary position > 10 x cable diameter 300 V AC 2,000 V AC 2,000 V AC 2,000 V AC 30 V DC Rated impulse voltage 0.8 kV Current loading Sensor/actuator cable Special color code Application Final Special color code Application Final Special P66K / IP67 P65 / IP66K / IP67	Cable diameter	7 mm
Bending radius Stationary position Nominal voltage, cable Test voltage, cable 2,000 V AC Reference voltage 30 V AC 30 V AC 30 V AC 30 V DC Rated impulse voltage Current loading Signal type Sensor/actuator cable Special feature Application Enclosure rating Diesal voltage Diesal voltage Stationary position > 10 × Cable diameter 30 V AC 30 V AC 30 V AC 30 V DC APPLICATION 30 V BC 3	Conductor cross section	0.25 mm ²
Nominal voltage, cable Test voltage, cable Reference voltage 30 V AC 30 V AC Rated impulse voltage Current loading Signal type Sensor/actuator cable Special feature Application Enclosure rating Derating temperature > 10 x cable diameter 300 V AC 2,000 V AC 4,000 V AC 30 V A	Shielding	Shielded
Nominal voltage, cable Test voltage, cable Reference voltage 30 V AC 30 V DC Rated impulse voltage 0.8 kV Current loading 2 A Signal type Sensor/actuator cable Special feature Application Enclosure rating Operating temperature 300 V AC 30 V DC 30	Bending radius	
Test voltage, cable Reference voltage 30 V AC 30 V DC Rated impulse voltage 0.8 kV Current loading 2 A Signal type Sensor/actuator cable Special feature Application Enclosure rating Derating temperature	Stationary position	> 10 x cable diameter
Reference voltage 30 V AC 30 V DC Rated impulse voltage 0.8 kV Current loading 2 A Signal type Sensor/actuator cable Special feature Application Enclosure rating Operating temperature	Nominal voltage, cable	300 V AC
30 V AC 30 V DC Rated impulse voltage 0.8 kV Current loading 2 A Signal type Sensor/actuator cable Special feature Special color code Application Enclosure rating IP65 / IP66K / IP67 Operating temperature	Test voltage, cable	2,000 V AC
Rated impulse voltage 0.8 kV Current loading 2 A Signal type Sensor/actuator cable Special feature Special color code Application Enclosure rating Derating temperature 30 V DC 0.8 kV 2 A Enclosure rating 1065 / IP66K / IP67	Reference voltage	
Rated impulse voltage Current loading 2 A Signal type Sensor/actuator cable Special feature Special color code Application Enclosure rating Operating temperature 0.8 kV 2 A Sensor/actuator cable Special color code IP65 / IP66K / IP67		30 V AC
Current loading 2 A Signal type Sensor/actuator cable Special feature Special color code Application Zones with chemicals Enclosure rating IP65 / IP66K / IP67 Operating temperature		30 V DC
Signal type Sensor/actuator cable Special feature Special color code Application Zones with chemicals Enclosure rating IP65 / IP66K / IP67 Operating temperature	Rated impulse voltage	0.8 kV
Special feature Special color code Application Zones with chemicals Enclosure rating IP65 / IP66K / IP67 Operating temperature	Current loading	2 A
Application Zones with chemicals Enclosure rating IP65 / IP66K / IP67 Operating temperature	Signal type	Sensor/actuator cable
Enclosure rating IP65 / IP66K / IP67 Operating temperature	·	
Operating temperature		
		IP65 / IP66K / IP67
Flexible use -5 °C +80 °C		
	Flexible use	-5 °C +80 °C

Stationary position	-30 °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 VW1 / CSA FT1

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))



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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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