

YF8U13-020VA1M8U13

Sensor/actuator cable



Illustration may differ

Ordering information

Туре	Part no.
YF8U13-020VA1M8U13	2137324

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



Detailed technical data

Technical specifications

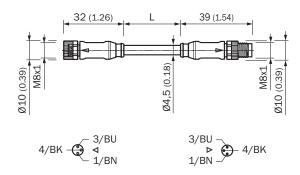
Connection type head B deal connector, M8, 3-pin, straight, A-coded Connection type head B deal connector, M8, 3-pin, straight, A-coded Connector type head B Corew connection, Mackal-plated (parallel connector) Connector material TPU Connector color Connector color Connector color Connector color co	·	
Connector material Screw connection Connector color Black Locking nut material Zinc die-cast, nickel-plated (female connector), Nickel-plated brass (male connector) Seal material FKM Tightening forque 0.4 Nm Width across flats 9 m, 3-wire, PVC Cable 2 m, 3-wire, PVC Jacket color Gray Cable diameter 4.5 mm Conductor cross section 0.25 mm² Sheldling Unshielded Bending radius > 10 x cable diameter Flexible use > 5 x cable diameter Stationary position > 5 x cable diameter Nominal voltage, cable 300 V AC Test voltage, cable 300 V AC Reference voltage 48 V AC 60 V DC Rated impulse voltage 1.5 kV Current loading 4 A Signal type Sensor/actuator cable Torsion force 180 ° / 1 m Torsion cycles 2,000,000	Connection type head A	Female connector, M8, 3-pin, straight, A-coded
Connector material TPU Connector color Black Locking nut material Zinc die-cast, nickel-plated (female connector), Nickel-plated brass (male connector) Seal material FKM Uightening torque 0.4 Nm Width across flats 9 Cable 2 m, 3-wire, PVC Jacket material PVC Cable diameter 4.5 mm Conductor cross section 0.25 mm² Shielding Unshielded Bending radius > 10 x cable diameter Flexible use > 5 x cable diameter Stationary position > 5 x cable diameter Nominal voltage, cable 300 ∨ AC Reference voltage 48 ∨ AC 60 ∨ DC 48 ∨ AC 60 ∨ DC 60 ∨ DC Rated Impulse voltage 4.5 kV Current loading 4 A Signal type 5 ensor/actuator cable Torsion force 180 ° / 1 m Torsion cycles 2,000,000	Connection type head B	Male connector, M8, 3-pin, straight, A-coded
Connector colorBlackLocking nut materialZinc die-cast, nickel-plated (female connector), Nickel-plated brass (male connector)Seal materialFKMTightening torque0.4 NmWidth across flats9Cable2 m, 3-wire, PVCJacket materialPVCJacket colorGrayCable diameter4.5 mmConductor cross section0.25 mm²ShieldingUnshieldedBending radius> 1.0 x cable diameterStationary position> 5 x cable diameterStationary position300 V ACTest voltage, cable2.000 V ACReference voltage48 V ACGov V DC48 V ACCurrent loading4 ASignal typeSensor/actuator cableTosion force180° / 1 mTosion cycles2,000,000Cycles per minutes35	Locking plug connector	Screw connection
Locking nut material Inic die-cast, nickel-plated (female connector), Nickel-plated brass (male connector) Seal material FKM Tightening torque 0.4 Nm Width across flats 9 Cable 2 m, 3-wire, PVC Jacket material PVC Jacket color Gray Conductor cross section 0.25 mm² Shielding Unshielded Bending radius 1 0 x cable diameter Stationary position > 5 x cable diameter Beference voltage 48 V AC Gov VDC Rated impulse voltage 4 A Signal type Sensor/actuator cable Torsion force 1 m Torsion cycles 2,000,000	Connector material	TPU
Seal material FKM Tightening torque 0.4 Nm Width across flats 9 Cable 2 m, 3-wire, PVC Jacket material PVC Jacket color Gray Cable diameter 4.5 mm Conductor cross section 0.25 mm² Shielding Unshielded Bending radius Flexible use 5 table diameter Stationary position 5 x cable diameter Nominal voltage, cable 300 V AC Test voltage, cable 48 V AC 60 V DC Actual impulse voltage 4.5 kV Current loading 4 A Signal type Sensor/actuator cable Torsion force 180° / 1 m Torsion cycles 2,000,000 Cycles per minutes 35	Connector color	Black
Tightening torque0.4 NmWidth across flats9Cable2 m, 3-wire, PVCJacket materialPVCJacket colorGrayCable diameter4.5 mmConductor cross section0.25 mm²ShieldingUnshieldedBending radius> 10 x cable diameterFlexible use Stationary position> 10 x cable diameterNominal voltage, cable300 V ACTest voltage, cable300 V ACReference voltage48 V ACGoV DC60 V DCRated impulse voltage4.5 kVCurrent loading4.6Signal typeSensor/actuator cableTorsion force180* / 1 mTorsion cycles2,000,000Cycles per minutes35	Locking nut material	Zinc die-cast, nickel-plated (female connector), Nickel-plated brass (male connector)
Width across flats 9 Cable 2 m, 3-wire, PVC Jacket material PVC Jacket color Gray Cable diameter 4.5 mm Conductor cross section 0.25 mm² Shielding Unshielded Bending radius Flexible use	Seal material	FKM
Cable 2 m, 3-wire, PVC Jacket material PVC Jacket color Gray Cable diameter 4.5 mm Conductor cross section 0.25 mm² Shelding Unshielded Bending radius > 10 x cable diameter Stationary position > 5 x cable diameter Stationary position > 5 x cable diameter Test voltage, cable 2,000 ∨ AC Reference voltage 48 ∨ AC 60 ∨ DC Rated impulse voltage 1.5 kV Current loading 4 A Signal type Sensor/actuator cable Torsion force 180 ° / 1 m Torsion cycles 2,000,000 Cycles per minutes 35	Tightening torque	0.4 Nm
Jacket material PVC Jacket color Gray Cable diameter 4.5 mm Conductor cross section 0.25 mm² Shielding Unshielded Bending radius Flexible use Stationary position > 10 x cable diameter Nominal voltage, cable 300 V AC Test voltage, cable 48 V AC 60 V DC Rated impulse voltage 4A Current loading 4 A Signal type Sensor/actuator cable Torsion force 180° / 1 m Torsion cycles 2,000,000 Cycles per minutes 35	Width across flats	9
Jacket color Gray Cable diameter 4.5 mm Conductor cross section 0.25 mm² Shielding Unshielded Bending radius Flexible use Stationary position Nominal voltage, cable 300 V AC Test voltage, cable 2,000 V AC Reference voltage 48 V AC 60 V DC Rated impulse voltage 4.5 kV Current loading 4 A Signal type Sensor/actuator cable Torsion cycles 2,000,000 Cycles per minutes 35	Cable	2 m, 3-wire, PVC
Cable diameter 4.5 mm Conductor cross section 0.25 mm² Shelding Unshielded Bending radius > 10 x cable diameter Flexible use Stationary position > 5 x cable diameter Nominal voltage, cable 300 V AC Test voltage, cable 2,000 V AC Reference voltage 48 V AC 60 V DC Rated impulse voltage 1.5 kV Current loading 4 A Signal type Sensor/actuator cable Torsion force 180° / 1 m Torsion cycles 2,000,000 Cycles per minutes 35	Jacket material	PVC
Conductor cross section 0.25 mm² Shielding Unshielded Bending radius > 10 x cable diameter Flexible use Stationary position > 5 x cable diameter Nominal voltage, cable 300 V AC Test voltage, cable 2,000 V AC Reference voltage 48 V AC 60 V DC Rated impulse voltage 1.5 kV Current loading 4 A Signal type Sensor/actuator cable Torsion force 180° / 1 m Torsion cycles 2,000,000 Cycles per minutes 35	Jacket color	Gray
Shielding Bending radius Flexible use Stationary position > 5 x cable diameter > 5 x cable diameter Nominal voltage, cable 300 V AC Test voltage, cable 2,000 V AC Reference voltage 48 V AC 60 V DC Rated impulse voltage 60 V DC Rated impulse voltage 4 A Signal type 5 Sensor/actuator cable 180° / 1 m Torsion cycles 7 Torsion cycles 2,000,000 Sycles per minutes 5 Tox cable 4 A Signal type 2,000,000 Sycles per minutes 5 Tox cable 4 A Signal type 3,000,000	Cable diameter	4.5 mm
Bending radius Flexible use Stationary position > 5 x cable diameter Nominal voltage, cable 300 V AC Test voltage, cable 2,000 V AC Reference voltage 48 V AC 60 V DC Rated impulse voltage 1.5 kV Current loading 4 A Signal type 5ensor/actuator cable Torsion force 180° / 1 m Torsion cycles 2,000,000 Cycles per minutes 5	Conductor cross section	0.25 mm ²
Flexible use Stationary position Nominal voltage, cable Test voltage, cable Reference voltage 48 V AC 60 V DC Rated impulse voltage Current loading Signal type Torsion force Torsion cycles Cycles per minutes > 10 x cable diameter > 5 x cable diameter > 5 x cable diameter > 5 x cable diameter	Shielding	Unshielded
Stationary position> 5 x cable diameterNominal voltage, cable300 V ACTest voltage, cable2,000 V ACReference voltage48 V AC60 V DC60 V DCRated impulse voltage1.5 kVCurrent loading4 ASignal typeSensor/actuator cableTorsion force180° / 1 mTorsion cycles2,000,000Cycles per minutes35	Bending radius	
Nominal voltage, cable Test voltage, cable Reference voltage 48 V AC 60 V DC Rated impulse voltage 1.5 kV Current loading AA Signal type Torsion force 180° / 1 m Torsion cycles Cycles per minutes	Flexible use	> 10 x cable diameter
Test voltage, cable Reference voltage 48 V AC 60 V DC Rated impulse voltage 1.5 kV Current loading Signal type Torsion force 180° / 1 m Torsion cycles Cycles per minutes	Stationary position	> 5 x cable diameter
Reference voltage 48 V AC 60 V DC Rated impulse voltage 1.5 kV Current loading 4 A Signal type Sensor/actuator cable Torsion force 180°/1 m Torsion cycles 2,000,000 Cycles per minutes	Nominal voltage, cable	300 V AC
48 V AC 60 V DC Rated impulse voltage 1.5 kV Current loading 4 A Signal type Sensor/actuator cable Torsion force 180°/1 m Torsion cycles 2,000,000 Cycles per minutes 35	Test voltage, cable	2,000 V AC
60 V DC Rated impulse voltage 1.5 kV Current loading 4 A Signal type Sensor/actuator cable Torsion force 180°/1 m Torsion cycles 2,000,000 Cycles per minutes 35	Reference voltage	
Rated impulse voltage1.5 kVCurrent loading4 ASignal typeSensor/actuator cableTorsion force180°/1 mTorsion cycles2,000,000Cycles per minutes35		48 V AC
Current loading 4 A Signal type Sensor/actuator cable Torsion force 180°/1 m Torsion cycles 2,000,000 Cycles per minutes 35		60 V DC
Signal type Sensor/actuator cable Torsion force 180°/1 m Torsion cycles 2,000,000 Cycles per minutes 35	Rated impulse voltage	1.5 kV
Torsion force 180°/1 m Torsion cycles 2,000,000 Cycles per minutes 35	Current loading	4 A
Torsion cycles 2,000,000 Cycles per minutes 35	Signal type	Sensor/actuator cable
Cycles per minutes 35	Torsion force	180°/1m
	Torsion cycles	2,000,000
Application Zones with chemicals	Cycles per minutes	35
	Application	Zones with chemicals

	Uncontaminated zones
Authorizations	UL
UL File No.	E335179
Enclosure rating	IP65 / IP66K / IP67
Operating temperature	
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 5.0	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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For us, that is "Sensor Intelligence."

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