



# YF2A13-050UA1M8U13

Sensor-actuator cables

CONNECTORS AND CABLES

**SICK**  
Sensor Intelligence.



### Ordering information

Type	part no.
YF2A13-050UA1M8U13	2095735

Other models and accessories → [www.sick.com/Sensor-actuator\\_cables](http://www.sick.com/Sensor-actuator_cables)



### Detailed technical data

#### Technical specifications

<b>Connection type head A</b>	Female connector, M12, 3-pin, straight, A-coded
<b>Connection type head B</b>	Male connector, M8, 3-pin, straight, A-coded
<b>Locking plug connector</b>	Screw connection
<b>Connector material</b>	TPU
<b>Connector color</b>	Black
<b>Locking nut material</b>	Zinc die-cast, nickel-plated (female connector), Nickel-plated brass (male connector)
<b>Seal material</b>	FKM
<b>Tightening torque</b>	0.4 Nm (M8), 0.6 Nm (M12)
<b>Width across flats</b>	9 (M8), 13 (M12)
<b>Cable</b>	5 m, 3-wire, PUR, halogen-free
<b>Jacket material</b>	PUR, halogen-free
<b>Jacket color</b>	Black
<b>Cable diameter</b>	4.1 mm
<b>Conductor cross section</b>	0.25 mm <sup>2</sup>
<b>Shielding</b>	Unshielded
<b>Bending radius</b>	
Flexible use	> 10 x cable diameter
Stationary position	> 5 x cable diameter
Drag chain operation	> 10 x cable diameter
<b>Bending cycles</b>	10,000,000
<b>Nominal voltage, cable</b>	300 V AC
<b>Test voltage, cable</b>	2,500 V AC
<b>Reference voltage</b>	
	50 V AC
	60 V DC
<b>Rated impulse voltage</b>	1.5 kV
<b>Current loading</b>	4 A
<b>Traversing speed</b>	3 m/s
<b>Travelling distance</b>	10 m
<b>Acceleration</b>	≤ 10 m/s <sup>2</sup>

<b>Signal type</b>	Sensor/actuator cable
<b>Torsion force</b>	180° / 1 m
<b>Torsion cycles</b>	2,000,000
<b>Cycles per minutes</b>	35
<b>Application</b>	Drag chain operation Zones with oils and lubricants Robot
<b>UL File No.</b>	E335179
<b>Enclosure rating</b>	IP65 / IP66K / IP67
<b>Operating temperature</b>	
Flexible use	-25 °C ... +80 °C
Stationary position	-40 °C ... +80 °C
Drag chain operation	-25 °C ... +80 °C
Head	-25 °C ... +85 °C
<b>Contamination rating</b>	3
<b>Insulation resistance</b>	100 MΩ
<b>Overvoltage category</b>	III
<b>Specific insulation resistance</b>	30 mΩ
<b>Thermal resistance, piping</b>	Flame retardant according to UL 1581, horizontal flame test/CSA FT2 / IEC 60332-1, IEC 60332-2-2

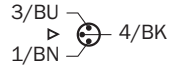
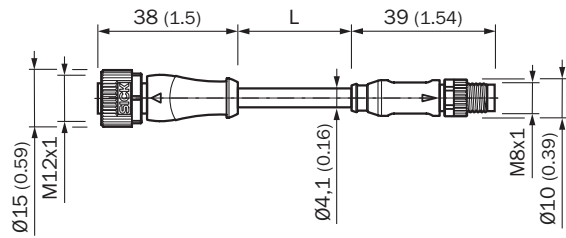
Certificates

<b>EU declaration of conformity</b>	✓
<b>UK declaration of conformity</b>	✓
<b>China RoHS</b>	✓
<b>cULus certificate</b>	✓

Classifications

<b>ECLASS 5.0</b>	19030312
<b>ECLASS 5.1.4</b>	19030312
<b>ECLASS 6.0</b>	27060304
<b>ECLASS 6.2</b>	27060304
<b>ECLASS 7.0</b>	27060304
<b>ECLASS 8.0</b>	27060304
<b>ECLASS 8.1</b>	27060304
<b>ECLASS 9.0</b>	27060304
<b>ECLASS 10.0</b>	27060304
<b>ECLASS 11.0</b>	27060304
<b>ECLASS 12.0</b>	27060304
<b>ETIM 5.0</b>	EC000830
<b>ETIM 6.0</b>	EC000830
<b>ETIM 7.0</b>	EC003249
<b>ETIM 8.0</b>	EC003249
<b>UNSPSC 16.0901</b>	26121604



### Dimensional drawing



Dimensions in mm (inch)

### Recommended accessories

Other models and accessories → [www.sick.com/Sensor-actuator\\_cables](http://www.sick.com/Sensor-actuator_cables)

	Brief description	Type	part no.
Mounting systems			
	<ul style="list-style-type: none"> <li><b>Description:</b> M12 mounting key set for SW13 with calibrated torque 0.6 Nm</li> <li><b>Packing unit:</b> 1 piece</li> <li><b>Suitable for:</b> M12 Standard</li> </ul>	TOOL-TW06M12AF13	5337208
	<ul style="list-style-type: none"> <li><b>Description:</b> M8 mounting key set for SW9 with calibrated torque 0.4 Nm</li> <li><b>Packing unit:</b> 1 piece</li> <li><b>Suitable for:</b> M8 Standard</li> </ul>	TOOL-TW04M08AF09	5337207

## 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.”

## WORLDWIDE PRESENCE:

Contacts and other locations –[www.sick.com](http://www.sick.com)