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DATA SHEET

YF8U13-020UA1M8U13

Sensor-actuator cables
Connectors and cables

SICK
Sensor Intelligence



CONNECTORS AND CABLES

YF8U13-020UA1M8U13

ORDERING INFORMATION

Type	part no.
YF8U13-020UA1M8U13	2096304

Further device versions and accessories at www.sick.com/Sensor-actuator_cables

DETAILED TECHNICAL DATA

TECHNICAL SPECIFICATIONS

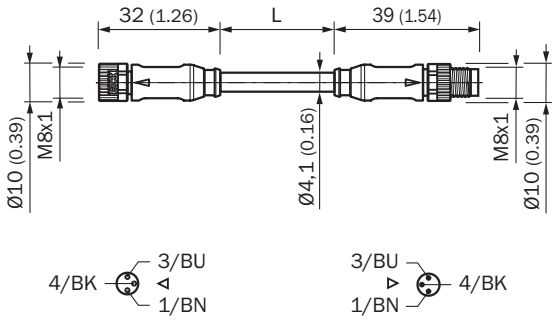
Connection type head A	Female connector, M8, 3-pin, straight, A-coded
Connection type head B	Male connector, M8, 3-pin, straight, A-coded
Locking plug connector	Screw connection
Connector material	TPU
Connector color	Black
Locking nut material	Zinc die-cast, nickel-plated (female connector), Nickel-plated brass (male connector)
Seal material	FKM
Tightening torque	0.4 Nm
Width across flats	9
Cable	2 m, 3-wire, PUR, halogen-free
Jacket material	PUR, halogen-free
Jacket color	Black
Cable diameter	4.1 mm
Conductor cross section	0.25 mm²
Shielding	Unshielded
Bending radius	
Flexible use	> 10 x cable diameter
Stationary position	> 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	48 V AC 60 V DC
Rated impulse voltage	1.5 kV
Current loading	4 A
Traversing speed	3 m/s
Travelling distance	10 m

Acceleration	≤ 10 m/s²
Signal type	Sensor/actuator cable
Torsion force	180° / 1 m
Torsion cycles	2,000,000
Cycles per minutes	35
Application	Drag chain operation Zones with oils and lubricants Robot
UL File No.	E335179
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	30 mΩ
Thermal resistance, piping	Flame retardant according to UL 1581, horizontal flame test/CSA FT2 / IEC 60332-1, IEC 60332-2-2

CERTIFICATES

EU declaration of conformity	✓
UK declaration of conformity	✓
China RoHS	✓
China Compulsory Product Certification (CCC) exempt	✓
cULus certificate	✓

DIMENSIONAL DRAWING



Dimensions in mm (inch)

Further information as well as suitable accessories, example applications and downloads such as CAD dimensional models, operating instructions and software can be found at www.sick.com/2096304

SICK AG
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SICK AT A GLANCE

SICK is a leading global technology company for intelligent sensors and integrated solutions in industrial automation. Our technologies set benchmarks, making your industrial processes more efficient, safer and more sustainable – both in logistics and manufacturing operations.

SICK combines sensor intelligence with industry expertise and certified consulting services. We provide the ideal foundation for scalable as well as tailor-made automation solutions and create added value along the entire value chain. Our close partnerships with our customers are more than just a promise: Together, we optimize productivity, improve quality, protect health and safety, and help build a sustainable future. All with empathy and trust.

Since 1946, we have been developing innovative technologies with passion and a pioneering spirit. With a global network in around 40 countries, SICK has a global presence and is always close by. The company's headquarters are located in Waldkirch near Freiburg, Germany. Our customers benefit from our understanding of both local and global requirements, which enables us to deliver tailor-made solutions

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