



DATA SHEET

YF2A1B-100UD1XLEAX

Sensor-actuator cables
Connectors and cables

SICK Sensor Intelligence



CONNECTORS AND CABLES

YF2A1B-100UD1XLEAX

ORDERING INFORMATION

Type	part no.
YF2A1B-100UD1XLEAX	2119045

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



DETAILED TECHNICAL DATA

TECHNICAL SPECIFICATIONS

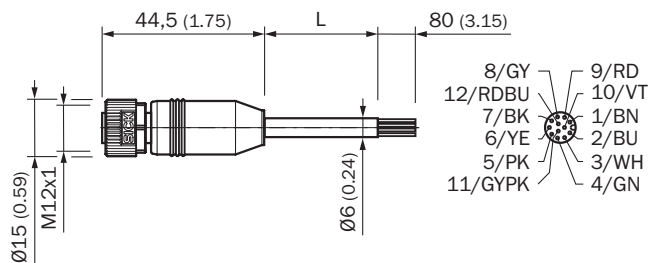
Connection type head A	Female connector, M12, 12-pin, straight, A-coded
Connection type head B	Flying leads
Locking plug connector	Screw connection
Connector material	TPU
Connector color	Black
Locking nut material	Zinc die-cast, nickel-plated
Seal material	FKM
Tightening torque	0.6 Nm
Width across flats	13
Cable	10 m, 12-wire, PUR, halogen-free
Jacket material	PUR, halogen-free
Jacket color	Black
Cable diameter	6 mm
Conductor cross section	0.14 mm ²
Shielding	Unshielded
Bending radius	
	Flexible use > 15 x cable diameter
	Stationary position > 7.5 x cable diameter
	Drag chain operation > 10 x cable diameter
Bending cycles	≤ 2,000,000
Reference voltage	≤ 30 V DC
Rated impulse voltage	0.8 kV
Current loading	1.5 A
Traversing speed	3.3 m/s
Travelling distance	5 m
Acceleration	≤ 5 m/s ²
Signal type	Sensor/actuator cable
Torsion force	180°

Application	Drag chain operation Zones with oils and lubricants Robot
Enclosure rating	IP65 / IP66 / IP67
Operating temperature	Flexible use -25 °C ... +85 °C Stationary position -40 °C ... +85 °C Drag chain operation -25 °C ... +85 °C Head -25 °C ... +85 °C
Contamination rating	3
Insulation resistance	100 MΩ
Overvoltage category	III
Specific insulation resistance	30 mΩ

CERTIFICATES

EU 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/2119045



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SICK AT A GLANCE

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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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