

YM2A68-200UA7XLEAX

Sensor/actuator cable

PLUG CONNECTORS AND CABLES





Ordering information

Туре	Part no.
YM2A68-200UA7XLEAX	6050689

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

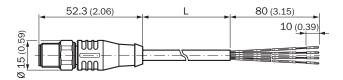
Accessory group Plug connectors and cables Connection type head A Male connector, M12, 8-pin, straight Connection type head B Plying leads Connector material TPU Connector color Black Locking nut material Stankes stel (V4A/1.4404) Cable 20 m, 8-wire, PUR, halogen-free Jacket color Black Cable diameter 6.3 mm Conductor cross section 0.25 mm² Shielding > 12 x cable diameter Stationary position > 5 x cable diameter Bending radius > 12 x cable diameter Bending cycles > 1,000,000 Reference workage > 1,000,000 Current loading A Traversing speed 1,7 m/s Travelling distance 5 m/s² Signal type Sensor/actuator cable Torsion force ± 5 m/s² Signal type Sensor/actuator cable Torsion force ± 6 m/s² Torsion force ± 6 m/s² Torsion force ± 6 m/s² Torsion for	Technical specifications	
Connection type head B Flying leads Connection type Flying leads Connector material TPU Connector color Black Locking nut material Stainless steel (V4A/1.44O4) Cable 20 m, 8-wire, PUR, halogen-free Jacket material PUR, halogen-free Jacket material Black Cable diameter 6.3 mm Conductor cross section 0.25 mm² Shielding Shielded Bending radius Flexible use >12 x cable diameter Stationary position \$ x cable diameter Stationary position \$ 1,000,000 Current loading 2 A Current loading 2 A Traversing speed 1,7 m/s Travelling distance 5 m/s² Acceleration 5 m/s² Signal type Sensor/actuator cable Torsion cycles 1,000,000 Application 2 ones with oils and lubricants Drag chain operation Enclosure rating 1,667 / 1P69K	Accessory group	Plug connectors and cables
Connection type head B Flying leads Connector material TPU Connector color Black Locking nut material Stainless steel (V4A/1.4404) Cable 20 m, 8-wire, PUR, halogen-free Jacket color Black Cable diameter 6.3 mm Conductor cross section 0.25 mm² Shielding > 12 x cable diameter Shielding radius > 12 x cable diameter Flexible use feerence voltage > 12 x cable diameter Stationary position > 5 x cable diameter ≤ 30 V Current loading 2 A Crurent loading 2 A Travesling speed 1.7 m/s Travelling distance 5 m/s² Acceleration ≤ 5 m/s² Signal type Sensor/actuator cable Torsion cycles 1,000,000 Application 20 conse with oils and lubricants poraginal operation Encosure rating 1,667 IP69K	Accessory family	Connecting cables
Connection type Flying leads Connector material TPU Connector color Black Locking nut material Stainless steel (V4A/1.4404) Cable 20 m, 8-wire, PUR, halogen-free Jacket material PUR, halogen-free Jacket color Black Cable diameter 6.3 mm Conductor cross section 0.25 mm² Shielded Shielded Bending radius > 12 x cable diameter Flexible use Stationary position > 5 x cable diameter Stationary position > 5 x cable diameter Bending cycles ≥ 1,000,000 Reference voltage ≤ 30 V Current loading 2 A Traversing speed 1,7 m/s Traveling distance 5 ms² Acceleration 5 ms² Signal type 5 sensor/actuator cable Torsion cycles 1,000,000 Application 2ones with oils and lubricants Drag chain operation Enclosure rating IP67/ IP69K	Connection type head A	Male connector, M12, 8-pin, straight
Connector color Black Locking nut material Stainless steel (V4A/1.4404) Cable 20 m, 8-wire, PUR, halogen-free Jacket material PUR, halogen-free Jacket color Black Cable diameter 6.3 mm Conductor cross section 0.25 mm² Shielding Shielded Bending radius > 12 x cable diameter Flexible us Stationary position > 5 x cable diameter Standing cycles ≥ 1,000,000 Reference voltage ≥ 30 V Current loading 2 A Traversing speed 1.7 m/s Traverling distance 5 m Acceleration ≤ 5 m/s² Signal type Sensor/actuator cable Torsion cycles 1,000,000 Application Cones with oils and lubricants Drag chain operation Enclosure rating IP67/ IP69K	Connection type head B	Flying leads
Connector color Black Locking nut material Stainless steel (V4A/1.4404) Cable 20 m, 8-wire, PUR, halogen-free Jacket material PUR, halogen-free Jacket color Black Cable diameter 6.3 mm Conductor cross section 0.25 mm² Shelding Plexible de Bending radius > 12 x cable diameter Stationary position > 5 x cable diameter Stationary position > 5 x cable diameter Bending cycles > 1,000,000 Reference voltage < 30 V Current loading 2 A Traversing speed 1.7 m/s Travelling distance 5 m/s² Signal type Sensor/actuator cable Torsion force ± 360* / 1 m Torsion cycles 1,000,000 Application 2 ones with oils and lubricants organis no peration Enclosure rating 1,067 / 1969K	Connection type	Flying leads
Locking nut material Stainless steel (V4A/1.4404) Cable 20 m, 8-wire, PUR, halogen-free Jacket material PUR, halogen-free Jacket color Black Cable diameter 6.3 mm Conductor cross section 0.25 mm² Shelding Shelded Bending radius **12 x cable diameter Flexible use Stationary position 5 x cable diameter Stationary position 5 x cable diameter Bending cycles \$ 1,000,000 Reference voltage \$ 30 V Current loading 2 A Traversing speed 1.7 m/s Travelling distance 5 m Acceleration \$ 5 m/s² Signal type Sensor/actuator cable Torsion cycles 1,000,000 Application Zones with oils and lubricants Drag chain operation Enclosure rating IP67/ IP69K	Connector material	TPU
Cable 20 m, 8 wire, PUR, halogen-free Jacket material PUR, halogen-free Jacket color Black Cable dlameter 6.3 mm Conductor cross section 0.25 mm² Shielding Shielded Bending radius Flexible use	Connector color	Black
Jacket material PUR, halogen-free Jacket color Black Cable diameter 6.3 mm Conductor cross section 0.25 mm² Shielding Shielded Bending radius 1 2 x cable diameter Flexible use Stationary position > 12 x cable diameter Stationary position > 5 x cable diameter Bending cycles ≥ 1,000,000 Reference voltage ≤ 30 V Current loading 2 A Traversing speed 1.7 m/s Travelling distance 5 m Acceleration ≤ 5 m/s² Signal type Sensor/actuator cable Torsion cycles 1,000,000 Application 2,000,000 Application 2,000,000 Enclosure rating IP67/ IP69K	Locking nut material	Stainless steel (V4A/1.4404)
Jacket color Black Cable diameter 6.3 mm Conductor cross section 0.25 mm² Shielding Shielded Bending radius Flexible use Stationary position > 12 x cable diameter Stationary position > 5 x cable diameter Bending cycles ≥ 1,000,000 Reference voltage ≤ 30 V Current loading 2 A Traversing speed 1.7 m/s Travelling distance 5 m Acceleration ≤ 5 m/s² Signal type Sensor/actuator cable Torsion force ± 360° / 1 m Torsion cycles 1,000,000 Application Zones with oils and lubricants Drag chain operation Enclosure rating IP67 / IP69K	Cable	20 m, 8-wire, PUR, halogen-free
Cable diameter 6.3 mm Conductor cross section 0.25 mm² Shielding Shielded Bending radius Flexible use Stationary position > 5 x cable diameter Stationary position > 5 x cable diameter Bending cycles ≥ 1,000,000 Reference voltage ≤ 30 V Current loading 2 A Traversing speed 1.7 m/s Travelling distance 5 m Acceleration ≤ 5 m/s² Signal type Sensor/actuator cable Torsion force ± 360° / 1 m Torsion cycles 1,000,000 Application Zones with oils and lubricants Drag chain operation Enclosure rating IP67/ IP69K	Jacket material	PUR, halogen-free
Conductor cross section 0.25 mm² Shielding Shielded Bending radius > 12 x cable diameter Stationary position > 5 x cable diameter Bending cycles ≥ 1,000,000 Reference voltage ≤ 30 V Current loading 2 A Traversing speed 1.7 m/s Travelling distance 5 m Acceleration ≤ 5 m/s² Signal type Sensor/actuator cable Torsion force ± 360° / 1 m Torsion cycles 1,000,000 Application Zones with oils and lubricants Drag chain operation Enclosure rating 1P67/ IP69K	Jacket color	Black
Shielding Shielded Bending radius > 12 x cable diameter Stationary position > 5 x cable diameter Bending cycles ≥ 1,000,000 Reference voltage ≤ 30 V Current loading 2 A Traversing speed 1.7 m/s Travelling distance 5 m Acceleration ≤ 5 m/s² Signal type Sensor/actuator cable Torsion force ± 360° / 1 m Torsion cycles 1,000,000 Application Zones with oils and lubricants Drag chain operation Enclosure rating IP67/ IP69K	Cable diameter	6.3 mm
Bending radius Flexible use Stationary position > 12 x cable diameter Sending cycles ≥ 1,000,000 Reference voltage ≤ 30 V Current loading 2 A Traversing speed 1.7 m/s Travelling distance 5 m Acceleration ≤ 5 m/s² Signal type Sensor/actuator cable Torsion force ± 360° / 1 m Torsion cycles 1,000,000 Application Zones with oils and lubricants prag chain operation Enclosure rating 1967/ 1P69K	Conductor cross section	0.25 mm ²
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Stationary position > 5 x cable diameter Bending cycles ≥ 1,000,000 Reference voltage ≤ 30 V Current loading 2 A Traversing speed 1.7 m/s Travelling distance 5 m Acceleration ≤ 5 m/s² Signal type Sensor/actuator cable Torsion force ± 360° / 1 m Torsion cycles 1,000,000 Application Zones with oils and lubricants Drag chain operation Enclosure rating IP67/ IP69K	Bending radius	
Bending cycles ≥ 1,000,000 Reference voltage ≤ 30 V Current loading 2 A Traversing speed 1.7 m/s Travelling distance 5 m Acceleration ≤ 5 m/s² Signal type Sensor/actuator cable Torsion force ± 360° / 1 m Torsion cycles 1,000,000 Application Zones with oils and lubricants Drag chain operation Enclosure rating IP67/ IP69K	Flexible use	> 12 x cable diameter
Reference voltage ≤ 30 V Current loading 1.7 m/s Traversing speed 1.7 m/s Travelling distance 5 m Acceleration ≤ 5 m/s² Signal type Sensor/actuator cable Torsion force ± 360° / 1 m Torsion cycles Application Zones with oils and lubricants Drag chain operation Enclosure rating P67/ IP69K	Stationary position	> 5 x cable diameter
Current loading 2 A Traversing speed 1.7 m/s Travelling distance 5 m Acceleration 5 m/s² Signal type Sensor/actuator cable Torsion force ± 360° / 1 m Torsion cycles Application Zones with oils and lubricants Drag chain operation Enclosure rating	Bending cycles	≥ 1,000,000
Current loading 2 A Traversing speed 1.7 m/s Travelling distance 5 m Acceleration ≤ 5 m/s² Signal type Sensor/actuator cable Torsion force ± 360° / 1 m Torsion cycles 1,000,000 Application Zones with oils and lubricants Drag chain operation Enclosure rating IP67/ IP69K	Reference voltage	
Traversing speed 1.7 m/s Travelling distance 5 m Acceleration Signal type Sensor/actuator cable Torsion force ± 360° / 1 m Torsion cycles 1,000,000 Application Zones with oils and lubricants Drag chain operation IP67/ IP69K		≤ 30 V
Travelling distance 5 m Acceleration ≤ 5 m/s² Signal type Sensor/actuator cable Torsion force ± 360° / 1 m Torsion cycles 1,000,000 Application Zones with oils and lubricants Drag chain operation Enclosure rating IP67/ IP69K	Current loading	2 A
Acceleration ≤ 5 m/s² Signal type Sensor/actuator cable Torsion force ± 360° / 1 m Torsion cycles 1,000,000 Application Zones with oils and lubricants Drag chain operation Enclosure rating IP67/ IP69K	Traversing speed	1.7 m/s
Signal type Torsion force ± 360° / 1 m Torsion cycles 1,000,000 Application Zones with oils and lubricants Drag chain operation IP67/ IP69K	Travelling distance	5 m
Torsion force ± 360° / 1 m Torsion cycles 1,000,000 Application Zones with oils and lubricants Drag chain operation Enclosure rating IP67/ IP69K	Acceleration	≤ 5 m/s²
Torsion cycles 1,000,000 Application Zones with oils and lubricants Drag chain operation Enclosure rating IP67/ IP69K	Signal type	Sensor/actuator cable
Application Zones with oils and lubricants Drag chain operation Enclosure rating IP67/ IP69K	Torsion force	± 360°/1 m
Enclosure rating Drag chain operation IP67/ IP69K	Torsion cycles	1,000,000
		Zones with oils and lubricants
Ambient operating temperature	Application	Drag chain operation

Flexible use	-30 °C +90 °C
Stationary position	-40 °C +90 °C
Drag chain operation	-25 °C +60 °C

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))





- ① White
- ② Brown③ Green
- 4 Yellow ⑤ Gray⑥ Pink
- ⑦ Blue
- 8 Red

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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.

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For us, that is "Sensor Intelligence."

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