

# YF2A15-030UB5XLEAX

Sensor/actuator cable

**PLUG CONNECTORS AND CABLES** 





#### Ordering information

| Туре               | Part no. |
|--------------------|----------|
| YF2A15-030UB5XLEAX | 2104367  |

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         Female connector, M12, 5-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         3 m, 5-wire, PUR, halogen-free           Jacket actival         PUR, halogen-free           Jacket color         Black           Conductor cross section         0.34 mm²           Shielding         Unshielded           Bending radius         Flexible use Stationary position         > 10 x cable diameter           Stationary position         > 5 x cable diameter           Drag chain operation         > 10 x cable diameter           Bending cycles         1000,000           Nominal voltage, cable         2,500 V AC           Reference voltage         2,500 V AC           Reference voltage         125 V AC           125 V DC           Rated impulse voltage  |                         |   |
|--|-------------------------|---|
| Connection type head A Connection type head B Cocking plug connector Connector material Connector material Connector color Cocking nut material Seal material FKM Tightening torque Width across flats Cable Jacket material Jacket color Conductor coss section Shielding Bending radius Flexible use Stationary position Drag chain operation Drag chain operation  Bending cycles Nominal voltage, cable Reference voltage Figure Screw connection TPU Black Flexible use Stationary position Conductor coss section Since A Since A Since Conductor Since Conductor Coss Since Conductor Coss Since | Accessory group         | Plug connectors and cables                      |
| Connection type head B Locking plug connector Connector material TPU Connector color Black Locking nut material Seal material FKM Tightening torque 0.6 Nm Width across flats 13 Cable Jacket material PUR, halogen-free Black Cable diameter Cable diameter Conductor cross section Shielding Bending radius Flexible use Stationary position Drag chain operation Drag chain operation Bending cycles Nominal voltage, cable Test voltage, cable Reference voltage  Flexible use S125 V AC 125 V DC  Flexible use S125 V AC 125 V DC   | Accessory family        | Connecting cables                               |
| Locking plug connector  Connector material  Connector color  Locking nut material  Seal material  FKM  Tightening torque  Width across flats  13  Cable  Jacket material  PUR, halogen-free  Black  Locking nut material  PUR, halogen-free  Jacket color  Cable diameter  Conductor cross section  Shielding  Bending radius  Flexible use  Stationary position  Drag chain operation  Bending cycles  Nominal voltage, cable  Test voltage, cable  Reference voltage  125 V AC  125 V DC   | Connection type head A  | Female connector, M12, 5-pin, straight, A-coded |
| Connector material Connector color  Locking nut material Seal material FKM Tightening torque Width across flats 13 Cable Jacket material PUR, halogen-free Jacket color Black Cable diameter Conductor cross section Shielding Bending radius Flexible use Stationary position Drag chain operation Bending cycles Nominal voltage, cable Test voltage  17PU Black Jacket Jightening torque 0.6 Nm Unshielded 90, Nm Unshielded 91, Nm Shielding Slationary position Drag chain operation Drag chain operation 10,000,000 125 V AC 125 V AC 125 V DC   | Connection type head B  | Flying leads                                    |
| Connector color  Locking nut material  Seal material  FKM  Tightening torque  Width across flats  Cable  3 m, 5-wire, PUR, halogen-free  Jacket material  Jacket color  Cable diameter  Cable diameter  Conductor cross section  Shielding  Bending radius  Flexible use Stationary position Drag chain operation  Drag chain operation  Bending cycles  Nominal voltage, cable  Test voltage, cable  Reference voltage  125 V AC 125 V DC   | Locking plug connector  | Screw connection                                |
| Locking nut material  Seal material  FKM  Tightening torque  0.6 Nm  Width across flats  13  Cable  3 m, 5-wire, PUR, halogen-free  PUR, halogen-free  Black  Cable diameter  Cable diameter  Conductor cross section  Shielding  Bending radius  Flexible use Stationary position Drag chain operation  Drag chain operation  Bending cycles  Nominal voltage, cable  Test voltage, cable  Reference voltage  125 V AC 125 V DC   | Connector material      | TPU   |
| Seal material         FKM           Tightening torque         0.6 Nm           Width across flats         13           Cable         3 m, 5-wire, PUR, halogen-free           Jacket material         PUR, halogen-free           Jacket color         Black           Cable diameter         4.8 mm           Conductor cross section         0.34 mm²           Shielding         Unshielded           Bending radius         Flexible use Stationary position Drag chain operation         > 10 x cable diameter           Drag chain operation         > 10 x cable diameter           Stationary position Drag chain operation Drag chain operation         > 10 x cable diameter           Stationary position Drag chain operation Drag chain operation         > 10 x cable diameter           Stationary position Drag chain operation Drag chain operation         > 10 x cable diameter           Stationary position Drag chain operation Drag chain operation         > 10 x cable diameter           Stationary position Drag chain operation Drag chain operation         > 10 x cable diameter           Stationary position Drag chain operation Drag chain operation         > 10 x cable diameter           Stationary position Drag chain operation Drag chain operation Drag chain operation         > 10 x cable diameter           Stationary position Drag chain operation Drag chain operation Drag chain opera   | Connector color         | Black   |
| Tightening torque  Width across flats  13  Cable  3 m, 5-wire, PUR, halogen-free  Jacket material  Jacket color  Black  Cable diameter  4.8 mm  Conductor cross section  Shielding  Bending radius  Flexible use Stationary position Drag chain operation  Drag chain operation  Bending vycles  Nominal voltage, cable  Test voltage, cable  Reference voltage  125 V AC 125 V DC   | Locking nut material    | Zinc die-cast, nickel-plated                    |
| Width across flats  Cable  3 m, 5-wire, PUR, halogen-free  PUR, halogen-free  PUR, halogen-free  Black  Cable diameter  4.8 mm  Conductor cross section  Shielding  Unshielded  Flexible use Stationary position Drag chain operation  Drag chain operation  Bending cycles  Nominal voltage, cable  Test voltage, cable  125 V AC 125 V DC  | Seal material           | FKM   |
| Cable Jacket material Jacket color Black Cable diameter Conductor cross section Shielding Bending radius  Flexible use Stationary position Drag chain operation  Bending cycles Nominal voltage, cable Test voltage, cable Reference voltage  125 V AC 125 V DC  | Tightening torque       | 0.6 Nm  |
| Jacket material Jacket color Black Cable diameter 4.8 mm Conductor cross section Shielding Bending radius  Flexible use Stationary position Drag chain operation Drag chain operation  Bending cycles Nominal voltage, cable Test voltage, cable Reference voltage  125 V AC 125 V DC  | Width across flats      | 13  |
| Jacket color Cable diameter 4.8 mm  Conductor cross section 0.34 mm² Unshielded  Bending radius  Flexible use Stationary position Drag chain operation Drag chain operation  Bending cycles Nominal voltage, cable Test voltage, cable Reference voltage  125 V AC 125 V DC  | Cable                   | 3 m, 5-wire, PUR, halogen-free                  |
| Cable diameter Conductor cross section Shielding Unshielded  Bending radius  Flexible use Stationary position Drag chain operation Drag chain operation Prest voltage, cable Test voltage, cable  Reference voltage  1.8 mm  0.34 mm² Unshielded  > 10 x cable diameter > 5 x cable diameter > 10 x cable diameter > 10 x cable diameter > 10 x cable diameter > 10,000,000  300 V AC  125 V AC 125 V DC   | Jacket material         | PUR, halogen-free                               |
| Conductor cross section  Shielding  Bending radius  Flexible use Stationary position Drag chain operation  Drag chain operation  Bending cycles  Nominal voltage, cable  Test voltage, cable  Reference voltage  125 V AC 125 V DC   | Jacket color            | Black   |
| Shielding Bending radius  Flexible use Stationary position Drag chain operation Drag chain operation  Sending cycles  Nominal voltage, cable Test voltage, cable Reference voltage  125 V AC 125 V DC  | Cable diameter          | 4.8 mm  |
| Bending radius  Flexible use > 10 x cable diameter  Stationary position > 5 x cable diameter  Drag chain operation > 10 x cable diameter  10,000,000  Bending cycles 10,000,000  Nominal voltage, cable 300 V AC  Test voltage, cable 2,500 V AC  Reference voltage 125 V AC 125 V DC  | Conductor cross section | 0.34 mm <sup>2</sup>                            |
| Flexible use Stationary position Drag chain operation  Bending cycles  Nominal voltage, cable  Test voltage, cable  125 V AC 125 V DC  | Shielding               | Unshielded                                      |
| Stationary position Drag chain operation  Drag chain operation  Drag chain operation  10,000,000  Nominal voltage, cable  Test voltage, cable  2,500 V AC  Reference voltage  125 V AC 125 V DC  | Bending radius          |   |
| Drag chain operation > 10 x cable diameter  10,000,000  Nominal voltage, cable 2,500 V AC  Test voltage  125 V AC  125 V DC  | Flexible use            | > 10 x cable diameter                           |
| Bending cycles 10,000,000  Nominal voltage, cable 300 V AC  Test voltage, cable 2,500 V AC  Reference voltage 125 V AC 125 V DC  | Stationary position     | > 5 x cable diameter                            |
| Nominal voltage, cable  Test voltage, cable  2,500 V AC  Reference voltage  125 V AC  125 V DC   | Drag chain operation    | > 10 x cable diameter                           |
| Test voltage, cable  Reference voltage  125 V AC 125 V DC  | Bending cycles          | 10,000,000                                      |
| Reference voltage  125 V AC  125 V DC  | Nominal voltage, cable  | 300 V AC  |
| 125 V AC<br>125 V DC   | Test voltage, cable     | 2,500 V AC                                      |
| 125 V DC   | Reference voltage       |   |
|  |                         | 125 V AC  |
| Rated impulse voltage 1.5 kV   |                         | 125 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°/1m  |
| Torsion cycles                 | 2,000,000  |
| Cycles per minutes             | 35   |
| Application                    | Zones with oils and lubricants Drag chain operation Robot  |
| Authorizations                 | CE<br>UL   |
| UL File No.                    | E335179  |
| Enclosure rating               | IP65 / IP66K / IP67  |
| Ambient 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 ΜΩ   |
| 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 |
|                                |  |

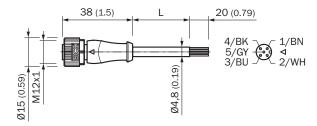
#### Classifications

| 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 |

# YF2A15-030UB5XLEAX | Sensor/actuator cable

PLUG CONNECTORS AND CABLES

## Dimensional drawing (Dimensions in mm (inch))



## 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."

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