

# YG2A14-150VB3XLEAX

Sensor/actuator cable





## Ordering information

| Туре               | Part no. |
|--------------------|----------|
| YG2A14-150VB3XLEAX | 2096213  |

Other models and accessories → www.sick.com/Sensor\_actuator\_cable



#### Detailed technical data

#### **Technical specifications**

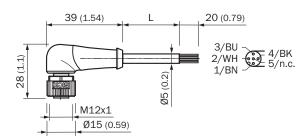
| Connection type head A         Female connector, M12, 4-pin, angled, A-coded           Connection type head B         Flying leads           Locking plug connector         Screw connection           Connector material         TPU           Connector color         Black           Locking nut material         Zinc die-cast, nickel-plated           Seal material         FKM           Tightening torque         0.6 Nm           Width across flats         13           Cable         15 m, 4-wire, PVC           Jacket color         Gray           Cable diameter         5 mm           Conductor cross section         0.34 mm²           Shielding         Unshielded           Bending radius         Flexible use Stationary position         > 10 x cable diameter           S x cable diameter         > 5 x cable diameter           Nominal voltage, cable         2,000 V AC           Test voltage, cable         2,500 V AC           250 V AC         250 V AC           250 V DC           Rated impulse voltage         2.5 kV           Current loading         4 A           Signal type         Sensor/actuator cable           Application         CE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                         |                                               |
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| 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         15 m, 4-wire, PVC           Jacket material         PVC           Jacket color         Gray           Cable diameter         5 mm           Conductor cross section         0.34 mm²           Shielding         Unshielded           Bending radius         > 10 x cable diameter           Stationary position         > 5 x cable diameter           Nominal voltage, cable         300 V AC           Test voltage, cable         2,000 V AC           Reference voltage         250 V AC           250 V DC           Rated impulse voltage         2.5 kV           Current loading         4 A           Signal type         Sensor/actuator cable           Application         Zones with chemicals Uncontaminated zones                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Connection type head A  | Female connector, M12, 4-pin, angled, A-coded |
| Connector material Connector color Black Locking nut material Seal material FKM Tightening torque 0.6 Nm Width across flats 13 Cable 15 m, 4-wire, PVC Jacket material PVC Jacket material PVC Jacket color Gray Cable diameter 5 mm Conductor cross section Shielding Bending radius Flexible use Stationary position Nominal voltage, cable Test voltage, cable Reference voltage Ference voltage 250 V AC 250 V DC Rated impulse voltage 2.5 kV Current loading Sensor/actuator cable Application Zones with chemicals Uncontaminated zones                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Connection type head B  | Flying leads                                  |
| Connector color Locking nut material Seal material FKM Tightening torque 0.6 Nm Width across flats 13 Cable 15 m, 4-wire, PVC Jacket material PVC Gray Cable diameter 5 mm Conductor cross section 0.34 mm² Chielding Bending radius Flexible use Stationary position Nominal voltage, cable Test voltage, cable Reference voltage Ference voltage Current loading Application  Seal material FKM Aincided FKM Aincided FKM Aincided FKM Aincided FVC Gray  13 mm² FVC FX mm  10 x cable diameter 5 x ca | Locking plug connector  | Screw connection                              |
| Locking nut material     Zinc die-cast, nickel-plated       Seal material     FKM       Tightening torque     0.6 Nm       Width across flats     13       Cable     15 m, 4-wire, PVC       Jacket material     PVC       Jacket color     Gray       Cable dlameter     5 mm       Conductor cross section     0.34 mm²       Shielding     Unshielded       Bending radius     Flexible use Stationary position       Nominal voltage, cable     300 V AC       Test voltage, cable     2,000 V AC       Reference voltage     250 V AC       250 V DC       Rated impulse voltage     2.5 kV       Current loading     4 A       Signal type     Sensor/actuator cable       Application     Zones with chemicals Uncontaminated zones                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Connector material      | TPU                                           |
| Seal material FKM   Tightening torque 0.6 Nm   Width across flats 13   Cable 15 m, 4-wire, PVC   Jacket material PVC   Jacket color Gray   Cable dlameter 5 mm   Conductor cross section 0.34 mm²   Shielding Unshielded   Bending radius Flexible use Stationary position   Flexible use Stationary position > 10 x cable diameter   > 5 x cable diameter   Stationary position > 5 x cable diameter   10 x cable diameter   Stationary position > 5 x cable diameter   2,000 V AC   Test voltage, cable 2,000 V AC   Reference voltage 250 V AC   250 V DC   Rated impulse voltage 2,5 kV   Current loading 4 A   Signal type Sensor/actuator cable   Application Zones with chemicals Uncontaminated zones                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Connector color         | Black                                         |
| Tightening torque  Width across flats  13  Cable  15 m, 4-wire, PVC  Jacket material  PVC  Gray  Cable diameter  5 mm  Conductor cross section  O.34 mm²  Shielding  Bending radius  Flexible use Stationary position  Nominal voltage, cable  Test voltage, cable  Reference voltage  250 V AC 250 V DC  Rated impulse voltage  2.5 kV  Current loading  Application  Volume 13  13  13  13  14  15  15  15  16  17  18  18  19  19  19  19  19  19  19  19                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Locking nut material    | Zinc die-cast, nickel-plated                  |
| Width across flats  Cable  15 m, 4-wire, PVC  Jacket material  PVC  Gray  Cable diameter  Conductor cross section  Shielding  Bending radius  Flexible use Stationary position  Nominal voltage, cable  Test voltage, cable  250 V AC 250 V DC  Rated impulse voltage  Current loading  Sensor/actuator cable  Application  13  15 m, 4-wire, PVC  PVC  Gray  PVC  Gray  PVC  Gray  Avaire, PVC  PVC  Fraty  Avaire, PVC  Fraty  Avaire, PVC  Fraty  Flexible use Stationary Position  10 x cable diameter 10 x cable diam | Seal material           | FKM                                           |
| Cable         15 m, 4-wire, PVC           Jacket material         PVC           Jacket color         Gray           Cable diameter         5 mm           Conductor cross section         0.34 mm²           Shielding         Unshielded           Bending radius         Flexible use Stationary position           Nominal voltage, cable         300 V AC           Test voltage, cable         2,000 V AC           Reference voltage         250 V AC           250 V DC         250 V DC           Rated impulse voltage         2.5 kV           Current loading         4 A           Signal type         Sensor/actuator cable           Application         Zones with chemicals Uncontaminated zones                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Tightening torque       | 0.6 Nm                                        |
| Jacket material PVC  Gray  Cable diameter 5 mm  Conductor cross section 0.34 mm²  Shielding Unshielded  Flexible use Stationary position Nominal voltage, cable 2,000 V AC  Test voltage, cable 2,000 V AC  Reference voltage 250 V AC 250 V DC  Rated impulse voltage 2.5 kV  Current loading 4 A  Signal type Sensor/actuator cable  Application 9 mm  Gray  Gray  Gray  Gray  Gray  Cable diameter  > 10 x cable diameter  > 5  | Width across flats      | 13                                            |
| Jacket color Cable diameter 5 mm  Conductor cross section 0.34 mm² Shielding Bending radius Flexible use Stationary position Nominal voltage, cable Test voltage, cable 250 V AC 250 V DC  Rated impulse voltage 2.5 kV Current loading 4 A Signal type Application  Simmal voltage, cable Sensor/actuator cable Zones with chemicals Uncontaminated zones                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Cable                   | 15 m, 4-wire, PVC                             |
| Cable diameter 5 mm  Onductor cross section 0.34 mm²  Shielding Unshielded  Bending radius  Flexible use > 10 x cable diameter Stationary position > 5 x cable diameter  Nominal voltage, cable 300 V AC  Test voltage, cable 2,000 V AC  Reference voltage  250 V AC 250 V DC  Rated impulse voltage 2.5 kV  Current loading 4 A  Signal type Sensor/actuator cable  Application  Test voltage 5 mm  0.34 mm²  Variable diameter  200 V AC  200 V AC  250 V AC  250 V DC  Rated impulse voltage 2.5 kV  Current loading 4 A  Signal type Sensor/actuator cable  Application                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Jacket material         | PVC                                           |
| Conductor cross section  Shielding  Bending radius  Flexible use Stationary position  Nominal voltage, cable  Test voltage, cable  2,000 V AC  Reference voltage  250 V AC 250 V DC  Rated impulse voltage  Current loading  4 A  Signal type  Application  O.34 mm²  Unshielded  Varieties  > 10 x cable diameter  > 5 x cable diameter  > 200 V AC  2,000 V AC  2,000 V AC  250 V DC  Rated impulse voltage  2.5 kV  Current loading  Application  O.34 mm²  Varieties  > 10 x cable diameter  > 200 V AC  2,000 V AC  2,000 V AC  250 V AC  250 V DC  Rated impulse voltage  2.5 kV  Current loading  Application  O.34 mm²  Varieties  > 20 x cable diameter  > 4 A  20 x cable diameter  > 5 x cable diameter  > 5 x cable diameter  > 5 x cable diameter  > 4 A  200 V AC  250 | Jacket color            | Gray                                          |
| Shielding Bending radius  Flexible use Stationary position  Nominal voltage, cable  Test voltage, cable  Reference voltage  250 V AC  250 V DC  Rated impulse voltage  2.5 kV  Current loading  Signal type  Application  Unshielded  > 10 x cable diameter > 5 x cable diameter                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Cable diameter          | 5 mm                                          |
| Stationary position    | Conductor cross section | 0.34 mm <sup>2</sup>                          |
| Flexible use Stationary position  Nominal voltage, cable  Test voltage, cable  Reference voltage  250 V AC  250 V DC  Rated impulse voltage  Current loading  Signal type  Application  Plexible use Stationary position  > 10 x cable diameter > 5 x cable diameter > 5 x cable diameter > 5 x cable diameter  > 5 x cable diameter  > 5 x cable diameter  > 5 x cable diameter  > 5 x cable diameter  > 5 x cable diameter  > 5 x cable diameter  > 5 x cable diameter  > 5 x cable diameter  > 6 x cable diameter  > 5 x cable diameter  > 6 x cable diameter  > 7 x cable diameter  > 6 x cable diameter  > 7 x cable diameter  > 6 x cable diameter  > 7 x cable diameter  > 6 x cable diameter  > 7 x cable diameter  > 8 x cable diameter  > 6 x cable diameter  > 7 x cable diameter  > 8 x cable diameter                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Shielding               | Unshielded                                    |
| Stationary position > 5 x cable diameter  300 V AC  Test voltage, cable 2,000 V AC  Reference voltage 250 V AC 250 V DC  Rated impulse voltage 2.5 kV  Current loading 4 A  Signal type Sensor/actuator cable  Application Zones with chemicals Uncontaminated zones                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Bending radius          |                                               |
| Nominal voltage, cable  Test voltage, cable 2,000 V AC  Reference voltage  250 V AC 250 V DC  Rated impulse voltage  2.5 kV  Current loading 4 A  Signal type Sensor/actuator cable Zones with chemicals Uncontaminated zones                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Flexible use            | > 10 x cable diameter                         |
| Test voltage, cable  Reference voltage  250 V AC 250 V DC  Rated impulse voltage  2.5 kV  Current loading  4 A  Signal type  Sensor/actuator cable  Application  Zones with chemicals Uncontaminated zones                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Stationary position     | > 5 x cable diameter                          |
| Reference voltage  250 V AC 250 V DC  Rated impulse voltage  2.5 kV  Current loading  4 A  Signal type  Sensor/actuator cable  Application  Zones with chemicals Uncontaminated zones                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Nominal voltage, cable  | 300 V AC                                      |
| 250 V AC 250 V DC  Rated impulse voltage 2.5 kV  Current loading 4 A  Signal type Sensor/actuator cable  Application Zones with chemicals Uncontaminated zones                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Test voltage, cable     | 2,000 V AC                                    |
| 250 V DC  Rated impulse voltage 2.5 kV  Current loading 4 A  Signal type Sensor/actuator cable  Application Zones with chemicals Uncontaminated zones                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Reference voltage       |                                               |
| Rated impulse voltage  Current loading  4 A  Signal type  Sensor/actuator cable  Application  Zones with chemicals Uncontaminated zones                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                         | 250 V AC                                      |
| Current loading 4 A  Signal type Sensor/actuator cable  Application Zones with chemicals Uncontaminated zones                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                         | 250 V DC                                      |
| Signal type  Sensor/actuator cable  Zones with chemicals Uncontaminated zones                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Rated impulse voltage   | 2.5 kV                                        |
| Application Zones with chemicals Uncontaminated zones                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Current loading         | 4 A                                           |
| Uncontaminated zones                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Signal type             | Sensor/actuator cable                         |
| <b>Authorizations</b> CE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Application             |                                               |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Authorizations          | CE                                            |

|                                | UL                                                 |
|--------------------------------|----------------------------------------------------|
| UL File No.                    | E335179                                            |
| Enclosure rating               | IP65 / IP66K / IP67                                |
| Operating temperature          |                                                    |
| Flexible use                   | -5 °C +80 °C                                       |
| Stationary position            | -30 °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 VW1 / CSA FT1 |

#### 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))



# YG2A14-150VB3XLEAX | Sensor/actuator cable

#### Recommended accessories

Other models and accessories → www.sick.com/Sensor\_actuator\_cable

|                | Brief description                                                                                                                                                                                                                                                                                           | Туре             | Part no. |  |  |  |  |
|----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|----------|--|--|--|--|
| Other mounting | Other mounting accessories                                                                                                                                                                                                                                                                                  |                  |          |  |  |  |  |
|                | 1 piece, M12 mounting key set for SW13 with calibrated torque 0.6 Nm                                                                                                                                                                                                                                        | TOOL-TW06M12AF13 | 5337208  |  |  |  |  |
| Others         |                                                                                                                                                                                                                                                                                                             |                  |          |  |  |  |  |
|                | Connection type head A: Male connector, M12, 5-pin, straight, A-coded Description: Unshielded, Head A: male connector, M12, 5-pin, straight, unshielded, for cable diameter 4 mm 6 mm Head B: - Connection systems: Screw-type terminals Permitted cross-section: ≤ 0.75 mm² Note: For field bus technology | STE-1205-G       | 6022083  |  |  |  |  |
|                | Connection type head A: Female connector, M12, 5-pin, straight, A-coded     Description: Unshielded, Head A: female connector, M12, 5-pin, straight, unshielded, for cable diameter 4 mm 6 mm Head B: -     Connection systems: Screw-type terminals     Permitted cross-section: ≤ 0.75 mm²                | DOS-1205-G       | 6009719  |  |  |  |  |

# 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

