

# **DOL-1204-L02MNI**

Sensor/actuator cable



# DOL-1204-L02MNI | Sensor/actuator cable



## Ordering information

| Туре            | Part no. |
|-----------------|----------|
| DOL-1204-L02MNI | 6052621  |

Only suitable for PNP sensors

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

# **EC®LAB**°

#### Detailed technical data

#### Technical specifications

| Connection type head A         Female connector, M12, 4-pin, angled           Connection type head B         Flying leads           Connector material         PUR           Connector color         Gay           Locking nut material         Stainless steel (V4A/1.4404)           Tightening torque         0.6 Nm           Width across flats         14           Cable         2 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         > 10 x cable diameter           S x cable diameter         > 5 x cable diameter           S x cable diameter         > 5 x cable diameter           S x cable diameter         > 5 x cable diameter           S x cable diameter         > 5 x cable diameter           S x cable diameter         > 5 x cable diameter           S tationary position         5 x cable diameter           S z 4 V         Current loading         4 A           Signal type         S ensor/actuator cable           Application         Hyglenic and washdown zones <tr< th=""><th></th><th></th></tr<>   |                         |   |
|---|-------------------------|---|
| Connector type Connector material Connector color Connector color Consector color Coking nut material Tightening torque Vidth across flats 14 Cable 2 m, 4-wire, PVC Jacket material PVC  Jacket color Gray  Cable diameter  Conductor cross section Shielding Bending radius Flexible use Stationary position Display LED Reference voltage ≤ 24 V  Rated impulse voltage  Current loading Application Note Note  Flips y Lease on or section type Gray Flexible use selearing agents to chemical cleaning agents (see ECOLAB). Please do not use cleaning agents (see ECOLAB). Please do not use cleaning agents to army other Kind, Not resistant against lactic acid & hydrogen peroxide  | Connection type head A  | Female connector, M12, 4-pin, angled  |
| Connector material Connector color Connector color Coking nut material Stainless steel (V4A/1.4404) Signal type Application Note  PUR Gray  PUR Gray  Stainless steel (V4A/1.4404)  Stain | Connection type head B  | Flying leads  |
| Connector color       Gray         Locking nut material       Stainless steel (V4A/1.4404)         Tightening torque       0.6 Nm         Width across flats       14         Cable       2 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         Flexible use       > 5 x cable diameter         Display LED       ✓         Reference voltage       ≤ 24 V         Rated impulse voltage       0.8 kV         Current loading       4 A         Signal type       Sensor/actuator cable         Application       Hygienic and washdown zones         Note       This product is generally resistant to chemical cleaning agents (see ECOLAB). Please do not use cleaning agents of any other Kind.Not resistant against lactic acid & hydrogen peroxide  | Connection type         | Flying leads  |
| Locking nut material  Tightening torque  0.6 Nm  Width across flats  14  Cable 2 m, 4-wire, PVC  Jacket material Jacket color Gray  Cable diameter 5 mm  Conductor cross section Shielding Bending radius Flexible use Stationary position  Display LED Reference voltage  1 × 24 ∨  Rated impulse voltage Current loading 4 A  Signal type  Sensor/actuator cable Hygienic and washdown zones  Note  Note  Stationary position  Stainless steel (V4A/1.4404)  1 4 × 4 × 4 × 4 × 4 × 4 × 4 × 4 × 4 × 4  | Connector material      | PUR   |
| Tightening torque  Width across flats  14  Cable  2 m, 4-wire, PVC  Jacket material  Jacket color  Cable diameter  Conductor cross section  Shielding  Bending radius  Flexible use Stationary position  Display LED  Reference voltage  ≤ 24 V  Rated impulse voltage  Current loading  Signal type  Application  Note  Tis product is generally resistant to chemical cleaning agents (see ECOLAB). Please do not use cleaning agents of any other Kind.Not resistant against lactic acid & hydrogen peroxide   | Connector color         | Gray  |
| Width across flats  Cable 2 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 > 5 x cable diameter  Display LED  Reference voltage  ≤ 24 V  Rated impulse voltage 0.8 kV  Current loading 4 A  Signal type Sensor/actuator cable  Application Hygienic and washdown zones  Note  This product is generally resistant to chemical cleaning agents (see ECOLAB). Please do not use cleaning agents of any other Kind.Not resistant against lactic acid & hydrogen peroxide  | Locking nut material    | Stainless steel (V4A/1.4404)  |
| Cable 2 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   Flexible use Stationary position > 10 x cable diameter   > 5 x cable diameter   Display LED ✓   Reference voltage ≤ 24 V   Rated impulse voltage 0.8 kV   Current loading 4 A   Signal type Sensor/actuator cable   Application Hygienic and washdown zones   Note This product is generally resistant to chemical cleaning agents (see ECOLAB). Please do not use cleaning agents of any other Kind.Not resistant against lactic acid & hydrogen peroxide   | Tightening torque       | 0.6 Nm  |
| Jacket material  Jacket color  Cable diameter  5 mm  Conductor cross section  Shielding  Bending radius  Flexible use Stationary position  Display LED  Reference voltage  ≤ 24 V  Rated impulse voltage  Current loading  Signal type  Application  Note  This product is generally resistant to chemical cleaning agents (see ECOLAB). Please do not use cleaning agents of any other Kind.Not resistant against lactic acid & hydrogen peroxide  | Width across flats      | 14  |
| 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         Display LED       ✓         Reference voltage       ≤ 24 V         Rated impulse voltage       0.8 kV         Current loading       4 A         Signal type       Sensor/actuator cable         Application       Hygienic and washdown zones         Note       This product is generally resistant to chemical cleaning agents (see ECOLAB). Please do not use cleaning agents of any other Kind. Not resistant against lactic acid & hydrogen peroxide   | Cable                   | 2 m, 4-wire, PVC  |
| Cable diameter Conductor cross section  Shielding Bending radius  Flexible use Stationary position  Display LED  Reference voltage  ≤ 24 V  Rated impulse voltage  Current loading  Signal type  Application  Note  Stationary position  This product is generally resistant to chemical cleaning agents (see ECOLAB). Please do not use cleaning agents of any other Kind.Not resistant against lactic acid & hydrogen peroxide  | Jacket material         | PVC   |
| Conductor cross section  Shielding  Bending radius  Flexible use Stationary position  Display LED  Reference voltage  ≤ 24 V  Rated impulse voltage  Current loading  Signal type  Application  Note  O.34 mm²  Unshielded  Unshielded  Variable diameter  > 10 x cable diameter  > 5 x cable diameter  > 5 x cable diameter  > 6 x cable diameter  > 6 x cable diameter  > 6 x cable diameter  > 7 x cable diameter  > 8 x cable diameter  > 8 x cable diameter  > 9 x cable diameter  > 8 x cable diameter  > 9 x cable diameter  > 10 x cable diameter  > 24 V   Rated impulse voltage  Sensor/actuator cable  Application  Hygienic and washdown zones  Note  | Jacket color            | Gray  |
| Shielding       Unshielded         Bending radius       Flexible use Stationary position         Display LED       > 5 x cable diameter         Reference voltage       ≤ 24 V         Rated impulse voltage       0.8 kV         Current loading       4 A         Signal type       Sensor/actuator cable         Application       Hygienic and washdown zones         Note       This product is generally resistant to chemical cleaning agents (see ECOLAB). Please do not use cleaning agents of any other Kind.Not resistant against lactic acid & hydrogen peroxide  | Cable diameter          | 5 mm  |
| Bending radius  Flexible use Stationary position  Display LED  Reference voltage  ≤ 24 V  Rated impulse voltage  Current loading  Signal type  Application  Note  Flexible use > 10 x cable diameter > 5 x cable diameter  ✓  ✓  Flexible use > 10 x cable diameter > 5 x cable diameter  ✓  ✓  Flexible use > 10 x cable diameter  > 5 x cable diameter  ✓  ✓  Flexible use > 10 x cable diameter  ✓  Flexible use = 24 V  Flexible use  | Conductor cross section | 0.34 mm <sup>2</sup>  |
| Flexible use Stationary position  Display LED  Reference voltage  ≤ 24 V  Rated impulse voltage  Current loading  4 A  Signal type  Application  Note  Flexible use Stationary position  > 5 x cable diameter  ✓  A cable diameter  ✓  Fix cable diameter  ✓  S x cable diameter  ✓  Fix cable diameter  Fix cable diame | Shielding               | Unshielded  |
| Stationary position  > 5 x cable diameter  ✓  Reference voltage  ≤ 24 V  Rated impulse voltage  0.8 kV  Current loading  4 A  Signal type  Sensor/actuator cable  Application  Hygienic and washdown zones  Note  This product is generally resistant to chemical cleaning agents (see ECOLAB). Please do not use cleaning agents of any other Kind.Not resistant against lactic acid & hydrogen peroxide   | Bending radius          |   |
| Display LED  Reference voltage  ≤ 24 V  Rated impulse voltage  0.8 kV  Current loading  4 A  Signal type  Sensor/actuator cable  Application  Hygienic and washdown zones  This product is generally resistant to chemical cleaning agents (see ECOLAB). Please do not use cleaning agents of any other Kind.Not resistant against lactic acid & hydrogen peroxide  | Flexible use            | > 10 x cable diameter   |
| Reference voltage  ≤ 24 V  Rated impulse voltage  0.8 kV  Current loading  4 A  Signal type  Sensor/actuator cable  Application  Hygienic and washdown zones  Note  This product is generally resistant to chemical cleaning agents (see ECOLAB). Please do not use cleaning agents of any other Kind.Not resistant against lactic acid & hydrogen peroxide   | Stationary position     | > 5 x cable diameter  |
| <ul> <li>≤ 24 V</li> <li>Rated impulse voltage</li> <li>0.8 kV</li> <li>Current loading</li> <li>4 A</li> <li>Signal type</li> <li>Sensor/actuator cable</li> <li>Application</li> <li>Hygienic and washdown zones</li> <li>Note</li> <li>This product is generally resistant to chemical cleaning agents (see ECOLAB). Please do not use cleaning agents of any other Kind.Not resistant against lactic acid &amp; hydrogen peroxide</li> </ul>  | Display LED             | ✓   |
| Rated impulse voltage  0.8 kV  Current loading  4 A  Signal type  Sensor/actuator cable  Application  Hygienic and washdown zones  Note  This product is generally resistant to chemical cleaning agents (see ECOLAB). Please do not use cleaning agents of any other Kind.Not resistant against lactic acid & hydrogen peroxide  | Reference voltage       |   |
| Current loading 4 A  Signal type Sensor/actuator cable  Application Hygienic and washdown zones  Note This product is generally resistant to chemical cleaning agents (see ECOLAB). Please do not use cleaning agents of any other Kind.Not resistant against lactic acid & hydrogen peroxide   |                         | ≤ 24 V  |
| Signal type Sensor/actuator cable Hygienic and washdown zones  Note This product is generally resistant to chemical cleaning agents (see ECOLAB). Please do not use cleaning agents of any other Kind.Not resistant against lactic acid & hydrogen peroxide   | Rated impulse voltage   | 0.8 kV  |
| Application Hygienic and washdown zones  Note This product is generally resistant to chemical cleaning agents (see ECOLAB). Please do not use cleaning agents of any other Kind.Not resistant against lactic acid & hydrogen peroxide   | Current loading         | 4 A   |
| Note  This product is generally resistant to chemical cleaning agents (see ECOLAB). Please do not use cleaning agents of any other Kind.Not resistant against lactic acid & hydrogen peroxide   | Signal type             | Sensor/actuator cable   |
| use cleaning agents of any other Kind.Not resistant against lactic acid & hydrogen peroxide   | Application             | Hygienic and washdown zones   |
|   | Note                    | use cleaning agents of any other Kind.Not resistant against lactic acid & hydrogen peroxide |

 $<sup>^{1)} \</sup>text{ Tested cleaning agents: 3\% P3 - topax 990, 5\% P3 - topoactive 200, 5\% P3 - topax 52, 3\% P3 - topax 66, 3\% P3 - topax 06, 3\% P3$ I.

2) Insulating material group: Cat I.

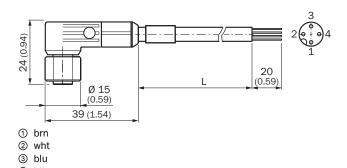
| Authorizations        | Ecolab<br>UL           |
|-----------------------|------------------------|
| UL File No.           | CYJV.E335179           |
| Enclosure rating      | IP65/ IP67/ IP69K      |
| Description           | LED function display   |
| Specialty             | LED function indicator |
| Operating temperature |                        |
| Flexible use          | -5 °C +80 °C           |
| Stationary position   | -30 °C +80 °C          |
| Head                  | -25 °C +85 °C          |

<sup>1)</sup> Tested cleaning agents: 3% P3 – topax 990, 5% P3 – topoactive 200, 5% P3 – topax 52, 3% P3 – topax 66, 3% P3 – topactive OKTO; Insulating material group: Cat I.

#### 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))

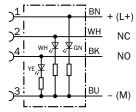


4 blk

 $<sup>^{2)}</sup>$  Insulating material group: Cat I.

## Connection diagram

Internal circuitry



## 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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