# DSL-1204-B02MRN



# **DSL-1204-B02MRN**



## Ordering information

Туре	Part no.
DSL-1204-B02MRN	6058502

Other models and accessories -> www.sick.com/



## Detailed technical data

Technical specifications

Accessory groupPlug connectors and cablesAccessory familyConnection cablesConnecton type head AGnacetion cablesConnector type head AMale connector, M12, 4-pin, straightConnector onGragConnector onorGragConnector onorGragC		
Connection type head A     Female connector, M12, 4-pin, angled       Connector material     Male connector, M12, 4-pin, straight       Connector material     PP       Connector color     Gray       Locking nut material     Stainless steel (V4A/1.4404)       Tightening torque     1 M       Vidth across flats     14       Cable     2 m, 4-wire, PP       Jacket naterial     p <sup>3</sup> Cable dameter     6 ray       Cable dameter     0.34 mm <sup>3</sup> Cable dameter     0.34 mm <sup>3</sup> Stationary position     >10 x cable diameter       Stationary position     >10 x cable diameter       Stationary position     >10 x cable diameter       Stationary position     >5 x cable diameter	Accessory group	Plug connectors and cables
Connection type head BMale connector, M12, 4-pin, straightConnector materialPPConnector colorGrayLocking nut materialStainless steel (V4A/1.4404)Tightening torque1 NmWitht across flats14Cable2 m, 4-wire, PPJacket materialpp <sup>1</sup> Jacket colorGrayCable diameter4.6 mmConductor cross-section0.34 mm²SheldingUnsheldedBending radius> 10 x cable diameterStationary postion> 10 x cable diameterStationary postion> 5 x	Accessory family	Connection cables
Connector color     PP       Connector color     Gray       Locking nut material     Stainless steel (V4A/1.4404)       Tightening torque     1 Nm       Width across flats     14       Cable     2 m, 4wire, PP       Jacket material     6 ray       Jacket color     Gray       Conductor cross-section     0.34 mm <sup>2</sup> Conductor cross-section     0.34 mm <sup>2</sup> Shielding     Unshielded       Bending radius     > 10 x cable diameter       Flexible value     > 10 x cable diameter       Stationary position     > 5 x sable diameter       Stationary position     > 5 x cable diameter       Stationary position	Connection type head A	Female connector, M12, 4-pin, angled
Connector colorGrayLocking nut materialGiayLocking nut materialStainless steel (V4A/1.4404)Tightening torqueNmVidth across flats14Cable2m. 4wire, PPJacket naterialgr JJacket colorGrayCable diameter6. mmConductor cross-section0.34 kmi2dShielding> 5. cable diameterFlexible a> 10. cable diameterFlexible a> 5. cable diameterStationary position> 5. cable diameterFlexible a> 5. cable diameterFlexible a> 20.0000Reference voltage> 20.0000Reter loading> 5. vable diameterStationary position> 5. vable diameterSignal type0.0000Gray cub	Connection type head B	Male connector, M12, 4-pin, straight
Locking nut material     Stailes steel (V4A/1.4404)       Tightening torque     1Nm       Witth across flats     64       Cable     2 m, 4wire, PP       Jacket material     pp -1       Jacket color     Gray       Cable     0.34 mm <sup>2</sup> Cable diameter     4.6 mm       Conductor cross-section     0.34 mm <sup>2</sup> Shelding     0.34 mm <sup>2</sup> Flexible us     > 10 x cable diameter       Stationary positio     > 5 x cable diameter       Current loading     > 50 x 0/x 0/x 0/x 0/x 0/x 0/x 0/x 0/x 0/x	Connector material	PP
Tightening torque1 NmWidth across flats14Cable2 m, 4-wire, PPJacket colorpp 1)Jacket colorGrayCable diameter4.6 mmConductor cross-section0.34 mm²ShieldingUnshieldedBending radius> 10 x cable diameterStationary position> 5 x cable diameterStat	Connector color	Gray
With across flats     14       Cable     2 m, 4-wire, PP       Jacket material     p 1       Jacket color     Gray       Cable diameter     6 mm       Conductor cross-section     0.34 mm²       Conductor cross-section     0.34 mm²       Shelding     Unshielded       Bending radius     2 10 x cable diameter       Stationary position     2 10 x cable diameter       Stationary position     2 4,000,000       Reference voltage     2 0.5 V       Rated impulse voltage     2 0.5 V       Current loading     4 A       Signal type     Sensor/actuator cable       Torsion force     80° / 1 m       Application     Hygienic and washdown zones Drag chain operation       Note     This product is generally resistant to chemical cleaning agents (see ECOLAB) and other chemical cleaning agents (see ECOLAB) and other chemical cleaning agents (see ECOLAB) and other chemical cleaning agent sub checked. <sup>21</sup>	Locking nut material	Stainless steel (V4A/1.4404)
Cable   2 m, 4-wire, PP     Jacket material   pp - 1     Jacket color   Gray     Laket color   Gray     Cable diameter   4.6 mm     Conductor cross-section   0.34 mm <sup>2</sup> Shielding   Unshielded     Ending radius   > 10 x cable diameter     Flexible variable   > 10 x cable diameter     Stationary position   > 5 x cable diameter     > 5 x cable diameter   > 5 x cable diameter     Stationary position   > 5 x cable diameter     > 5 x cable diameter   > 5 x cable diameter     Stationary position   > 5 x cable diameter     > 5 x cable diameter   > 5 x cable diameter     Stationary position   > 5 x cable diameter     Reference voltage   4.000,000     Rated impulse voltage   2.5 kV     Grand table diameter   > 5 mor/actuator cable     Signal type   Sensor/actuator cable     Torsion force   Hog/n 1m     Application   His pro	Tightening torque	1 Nm
Jacket material     pp 1       Jacket color     Gray       Cable diameter     4.6 mm       Conductor cross-section     0.34 mm²       Shielding     Unshielded       Shielding radius     10 x cable diameter       Flexible us     > 10 x cable diameter       Stationary position     > 5 x cable diameter       Stationary position     > 5 x cable diameter       Reference voltage     > 4,000,000       Rated impulse voltage     > 250 V       Current loading     > 5 x cable clautor cable       Signal type     Sensor/catuator cable       Torsion force     180° / 1 m       Application     This product is generally resistant to chemical cleaning agents (see ECOLAB) and other chemical cleaning agents (see ECOLAB) and other chemical cleaning agent being used must be checked. <sup>2</sup> )	Width across flats	14
Jacket color     Gray       Cable diameter     4.6 mm       Conductor cross-section     0.34 mm <sup>2</sup> Shielding     Unshielded       Shielding     Value       Bending radius     > 10 x cable diameter       Stationary position     > 5 x cable diameter       Stationary position     > 5 x cable diameter       Bending cycles     > 4,000,000       Reference voltage     > 25 v       Rated impulse voltage     250 V       Current loading     4A       Signal type     Sensor/actuator cable       Torsion force     180° / 1 m       Application     Yigenic and washdown zones Drag chain operation       Note     This product is generally resistant to chemical cleaning agents (see ECOLAB) and other chemical cleaning agent being used must be checked. <sup>21</sup>	Cable	2 m, 4-wire, PP
Cable diameter   4.6 mm     Conductor cross-section   0.34 mm <sup>2</sup> Shielding   Unshielded     Bending radius   > 10 x cable diameter     Flexible use   > 10 x cable diameter     Stationary position   > 5 x cable diameter     Stationary position   > 4,000,000     Reference voltage   2.5 kV     Current loading   4 A     Signal type   Sensor/actuator cable     Torsion force   180° / 1 m     Application   Hygienic and washdown zones praction operation operation operation is carried out, the material's resistance to the cleaning agent being used must be checked. <sup>2</sup> )	Jacket material	PP <sup>1)</sup>
Conductor cross-section   0.34 mm <sup>2</sup> Shielding   Unshielded     Bending radius   > 10 x cable diameter     Flexible us   > 10 x cable diameter     Stationary position   > 5 x cable diameter     Stationary position   > 5 x cable diameter     Reference voltage   > 4,000,000     Rated impulse voltage   2 50 V     Current loading   4 A     Signal type   Sensor/actuator cable     Torsion force   180° / 1 m     Application   Drig chain operation     Note   This product is generally resistant to chemical cleaning agents (see ECOLAB) and other chemical cleaning agent being used must be checked. <sup>2)</sup>	Jacket color	Gray
Shielding   Unshielded     Bending radius   > 10 x cable diameter     Flexible use   > 5 x cable diameter     Stationary positio   > 5 x cable diameter     Bending cycles   > 4,000,000     Reference voltage   > 250 V     Rated impulse voltage   2.5 kV     Current loading   4 A     Signal type   Sensor/actuator cable     Torsion force   180° / 1 m     Application   Hygienic and washdown zones Drag chain operation     Note   This product is generally resistant to chemical cleaning agents (see ECOLAB) and other chem- ical compounds such as H2O2 and CH2O2. Before permanent installation is carried out, the material's resistance to the cleaning agent being used must be checked. <sup>2)</sup>	Cable diameter	4.6 mm
Bending radius     > 10 x cable diameter       Flexible use     > 10 x cable diameter       Stationary position     > 5 x cable diameter       Bending cycles     > 4,000,000       Reference voltage     > 250 V       Rated impulse voltage     2.5 kV       Current loading     4 A       Signal type     Sensor/actuator cable       Torsion force     180° / 1 m       Application     Hygienic and washdown zones Drag chain operation       Note     This product is generally resistant to chemical cleaning agents (see ECOLAB) and other chem- ical compounds such as H2O2 and CH2O2. Before permanent installation is carried out, the material's resistance to the cleaning agent being used must be checked. <sup>2</sup>	Conductor cross-section	0.34 mm <sup>2</sup>
Flexible use   > 10 x cable diameter     Stationary position   > 5 x cable diameter     Bending cycles   > 4,000,000     Reference voltage   > 250 V     Rated impulse voltage   2.5 kV     Current loading   4 A     Signal type   Sensor/actuator cable     Torsion force   180° / 1 m     Application   Hygienic and washdown zones Drag chain operation     Note   This product is generally resistant to chemical cleaning agents (see ECOLAB) and other chem- rical compounds such as H2O2 and CH2O2. Before permanent installation is carried out, the material's resistance to the cleaning agent being used must be checked. <sup>2)</sup>	Shielding	Unshielded
Stationary position> 5 x cable diameterBending cycles> 4,000,000Reference voltage< 250 V	Bending radius	
Bending cycles≥ 4,000,000Reference voltage≤ 250 VRated impulse voltage2.5 kVCurrent loading4 ASignal typeSensor/actuator cableTorsion force180° / 1 mApplicationHygienic and washdown zones Drag chain operationNoteThis product is generally resistant to chemical cleaning agent being used must be checked. <sup>2</sup> )	Flexible use	> 10 x cable diameter
Reference voltage   ≤ 250 V     Rated impulse voltage   2.5 kV     Current loading   4 A     Signal type   Sensor/actuator cable     Torsion force   180° / 1 m     Application   Hygienic and washdown zones Drag chain operation     Note   This product is generally resistant to chemical cleaning agents (see ECOLAB) and other chem- ical compounds such as H202 and CH202. Before permanent installation is carried out, the material's resistance to the cleaning agent being used must be checked. <sup>2)</sup>	Stationary position	> 5 x cable diameter
Rated impulse voltage2.5 kVCurrent loading4 ASignal typeSensor/actuator cableTorsion force180° / 1 mApplicationHygienic and washdown zones Drag chain operationNoteThis product is generally resistant to chemical cleaning agents (see ECOLAB) and other chem- ical compounds such as H2O2 and CH2O2. Before permanent installation is carried out, the material's resistance to the cleaning agent being used must be checked. 2)	Bending cycles	≥ 4,000,000
Current loading   4 A     Signal type   Sensor/actuator cable     Torsion force   180° / 1 m     Application   Hygienic and washdown zones Drag chain operation     Note   This product is generally resistant to chemical cleaning agents (see ECOLAB) and other chem- ical compounds such as H2O2 and CH2O2. Before permanent installation is carried out, the material's resistance to the cleaning agent being used must be checked. <sup>2)</sup>	Reference voltage	≤ 250 V
Signal type   Sensor/actuator cable     Torsion force   180° / 1 m     Application   Hygienic and washdown zones Drag chain operation     Note   This product is generally resistant to chemical cleaning agents (see ECOLAB) and other chem- ical compounds such as H2O2 and CH2O2. Before permanent installation is carried out, the material's resistance to the cleaning agent being used must be checked. <sup>2)</sup>	Rated impulse voltage	2.5 kV
Torsion force   180° / 1 m     Application   Hygienic and washdown zones Drag chain operation     Note   This product is generally resistant to chemical cleaning agents (see ECOLAB) and other chem- ical compounds such as H2O2 and CH2O2. Before permanent installation is carried out, the material's resistance to the cleaning agent being used must be checked. <sup>2)</sup>	Current loading	4 A
Application   Hygienic and washdown zones Drag chain operation     Note   This product is generally resistant to chemical cleaning agents (see ECOLAB) and other chem- ical compounds such as H2O2 and CH2O2. Before permanent installation is carried out, the material's resistance to the cleaning agent being used must be checked. <sup>2)</sup>	Signal type	Sensor/actuator cable
Drag chain operation       Note     This product is generally resistant to chemical cleaning agents (see ECOLAB) and other chemical compounds such as H2O2 and CH2O2. Before permanent installation is carried out, the material's resistance to the cleaning agent being used must be checked. <sup>2)</sup>	Torsion force	180°/1m
ical compounds such as H2O2 and CH2O2. Before permanent installation is carried out, the material's resistance to the cleaning agent being used must be checked. <sup>2)</sup>	Application	
	Note	ical compounds such as H2O2 and CH2O2. Before permanent installation is carried out, the material's resistance to the cleaning agent being used must be checked. <sup>2)</sup>

<sup>1)</sup> Silicone-free, halogen-free, LABS-free.

<sup>2)</sup> Tested detergent: P3-topactive DES, P3-topactive 200, P3-topax 52, P3-topax 66 und P3-topax 91.

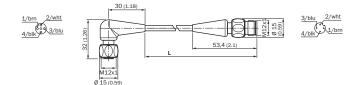
Authorizations	Ecolab
Enclosure rating	IP67/ IP69K
Ambient operating temperature	
Flexible use	-25 °C +105 °C
Stationary position	-40 °C +105 °C

Silicone-free, halogen-free, LABS-free.
Tested detergent: P3-topactive DES, P3-topactive 200, P3-topax 52, P3-topax 66 und P3-topax 91.

#### Classifications

ECI@ss 5.0	19030312
ECI@ss 5.1.4	19030312
ECI@ss 6.0	27060304
ECI@ss 6.2	27060304
ECI@ss 7.0	27060304
ECI@ss 8.0	27060304
ECI@ss 8.1	27060304
ECI@ss 9.0	27060304
ECI@ss 10.0	27060304
ECI@ss 11.0	27060304
ETIM 5.0	EC000830
ETIM 6.0	EC000830
ETIM 7.0	EC003249
UNSPSC 16.0901	26121604

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



# SICK AT A GLANCE

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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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