

DOL-127SG7M5E25KM0

Sensor/actuator cable

PLUG CONNECTORS AND CABLES





Ordering information

Туре	Part no.
DOL-127SG7M5E25KM0	2076542

Other models and accessories → www.sick.com/Sensor_actuator_cable

Detailed technical data

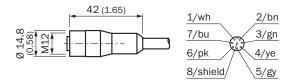
Technical specifications

Connection type head A		
Connector material Connector color Black Color (Cable (Cab	Connection type head A	Female connector, M12, 8-pin, straight
Connector material Connector color Locking nut material Cu2n, nickel-plated brass Cable 7.5 m, 7-wire, PUR, halogen-free Jacket material Jacket color Black Cable diameter Conductor cross section O.25 mm² Shielding Bending radius Flexible use Stationary position Bending cycles Reference voltage ≤ 30 V Current loading Traversing speed Authorizations UL recognized in accordance with AWM Style 20549 (80 °C / 300 V), jacket UL recognized in accordance with AWM Style 10493 (80 °C / 300 V), conductor UL File No. Flexible use Stationary position Drag chain operation Drag chain operation Drag chain operation Fexible use Stationary position Drag chain operation Cu27, nickel-plated brass FUZ, nickel-plated brass FUZ	Connection type head B	Flying leads
Connector color Black Locking nut material CuZn, nickel-plated brass Cable 7.5 m, 7-wire, PUR, halogen-free Jacket material PUR, halogen-free Jacket color Black Cable diameter 6 mm Conductor cross section 0.25 mm² Shielding Shielded Bending radius Flexible use Stationary position > 10 x cable diameter S x cable diameter > 2 x cable diameter Sending cycles > 2,000,000 Reference voltage ≤ 30 V Current loading 2 A Traversing speed 3.3 m/s Acceleration ≤ 5 m/s² Signal type Sensor/actuator cable Authorizations UL recognized in accordance with AWM Style 20549 (80 °C / 300 V), jacket UL recognized in accordance with AWM Style 10493 (80 °C / 300 V), conductor UL File No. CYJKE335179 Enclosure rating IP65/ IP67 (EN 60529) Operating temperature -25 °C +80 °C Stationary position -50 °C +80 °C Operating temperature -50 °C +80 °C	Connection type	Flying leads
Locking nut material CuZn, nickel-plated brass Cable 7.5 m, 7-wire, PUR, halogen-free Jacket material PUR, halogen-free Jacket color Black Cable diameter 6 mm Conductor cross section 0.25 mm² Shielding Shielded Bending radius > 10 x cable diameter Stationary position > 5 x cable diameter Stationary position > 2,000,000 Reference voltage < 30 V Current loading 2 A Traversing speed 3.3 m/s Acceleration < 5 m/s² Signal type Sensor/actuator cable Authorizations UL recognized in accordance with AWM Style 20549 (80 °C / 300 V), jacket UL recognized in accordance with AWM Style 10493 (80 °C / 300 V), conductor UL File No. CYJM.E335179 Enclosure rating IP65/ IP67 (EN 60529) Operating temperature -50 °C +80 °C Stationary position -50 °C +80 °C Drag chain operation -50 °C +80 °C	Connector material	TPU
Cable 7.5 m, 7-wire, PUR, halogen-free Jacket material PUR, halogen-free Jacket color Black Cable diameter 6 mm Conductor cross section 0.25 mm² Shielding Shielded Bending radius Flexible use Stationary position > 10 x cable diameter Stationary position > 5 x cable diameter Sending cycles > 2,000,000 Reference voltage ≤ 30 V Current loading 2 A Traversing speed 3.3 m/s Acceleration ≤ 5 m/s² Signal type Sensor/actuator cable Authorizations UL recognized in accordance with AWM Style 20549 (80 °C / 300 V), jacket UL recognized in accordance with AWM Style 10493 (80 °C / 300 V), conductor UL File No. CYJV.E335179 Enclosure rating IP65/ IP67 (EN 60529) Operating temperature Flexible use Stationary position Drag chain operation -50 °C +80 °C +80 °C +80 °C +80 °C +60 °C	Connector color	Black
Jacket material Jacket color Cable diameter Conductor cross section Shielding Bending radius Flexible use Stationary position Bending cycles Reference voltage \$\frac{30 \text{ V}}{2}\$ Current loading Traversing speed Acceleration Signal type Authorizations UL recognized in accordance with AWM Style 20549 (80 °C / 300 V), jacket UL recognized in accordance with AWM Style 10493 (80 °C / 300 V), conductor UL File No. Flexible use Flexible use Flexible use Stationary position Flexible use CyJ/E335179 Enclosure rating Flexible use Flexible use Stationary position Drag chain operation CyJ/E355C +80 °C -25 °C +80 °C -25 °C +80 °C -25 °C +80 °C	Locking nut material	CuZn, nickel-plated brass
Black Cable diameter Cable diameter Conductor cross section Cable diameter Conductor cross section Cable diameter Cable diamet	Cable	7.5 m, 7-wire, PUR, halogen-free
Cable diameter 6 mm Conductor cross section 0.25 mm² Shielding Shielded Bending radius > 10 x cable diameter Stationary position > 5 x cable diameter Bending cycles > 2,000,000 Reference voltage ≤ 30 V Current loading 2 A Traversing speed 3.3 m/s Acceleration ≤ 5 m/s² Signal type Sensor/actuator cable Authorizations UL recognized in accordance with AWM Style 20549 (80 °C / 300 V), jacket UL recognized in accordance with AWM Style 10493 (80 °C / 300 V), conductor UL File No. CYJV.E335179 Enclosure rating IP65/ IP67 (EN 60529) Operating temperature Flexible use Stationary position Drag chain operation -25 °C +80 °C -50 °C +80 °C -50 °C +60 °C	Jacket material	PUR, halogen-free
Conductor cross section Shielding Bending radius Flexible use Stationary position Perference voltage \$ 30 V \$ Current loading \$ 2 A \$ Traversing speed \$ 3.3 m/s \$ Acceleration \$ 5 m/s^2 \$ Signal type \$ Sensor/actuator cable \$ UL recognized in accordance with AWM Style 20549 (80 °C / 300 V), jacket UL recognized in accordance with AWM Style 10493 (80 °C / 300 V), conductor CYJV.E335179 Enclosure rating \$ Pe65 / IP67 (EN 60529) \$ Operating temperature Flexible use \$ -25 °C +80 °C \$ 5 m/s °C +80 °C \$ 5 m/s °C +60 °C \$ 1 m/s °C +60 °C +60 °C +60 °C \$ 1 m/s °C +60 °C +6	Jacket color	Black
Shielding Bending radius Flexible use Stationary position Bending cycles Reference voltage \$\leq 30 \ V\$ Current loading \$\leq 5 \ m/s^2\$ Sensor/actuator cable Authorizations UL recognized in accordance with AWM Style 20549 (80 °C / 300 V), jacket UL recognized in accordance with AWM Style 10493 (80 °C / 300 V), conductor UL File No. CyJV.E335179 Enclosure rating Operating temperature Flexible use \$\leq 25 \ ^C \ldots +80 \ ^C \\ -50 \ ^C \ldots +80 \ ^C \\ -25 \ ^C \ldots +20 \ ^C \ldots +20 \\ -25 \ ^C \ldots +20 \ ^C \ldots +20 \\ -25 \ ^C \ldots +20 \ ^C \ldots +20 \\ -25 \ ^C \l	Cable diameter	6 mm
Bending radius Flexible use Stationary position > 5 x cable diameter > 2,000,000 Reference voltage \$\leq 30 \text{ V}\$ Current loading	Conductor cross section	0.25 mm ²
Flexible use Stationary position > 5 x cable diameter > 5 x cable diameter > 5 x cable diameter > 2,000,000	Shielding	Shielded
Stationary position Bending cycles Reference voltage ≤ 30 V Current loading Traversing speed Acceleration Signal type Authorizations UL recognized in accordance with AWM Style 20549 (80 °C / 300 V), jacket UL recognized in accordance with AWM Style 10493 (80 °C / 300 V), conductor UL File No. Enclosure rating Operating temperature Flexible use Stationary position Pray C +80 °C -50 °C +80 °C -25 °C +80 °C -25 °C +60 °C	Bending radius	
Bending cycles Reference voltage ≤ 30 V Current loading Traversing speed 3.3 m/s Acceleration Signal type Authorizations UL recognized in accordance with AWM Style 20549 (80 °C / 300 V), jacket UL recognized in accordance with AWM Style 10493 (80 °C / 300 V), conductor UL File No. CYJV.E335179 Enclosure rating Operating temperature Flexible use Stationary position Drag chain operation S 2 A 3.3 m/s Sensor/actuator cable UL recognized in accordance with AWM Style 20549 (80 °C / 300 V), jacket UL recognized in accordance with AWM Style 10493 (80 °C / 300 V), conductor CYJV.E335179 Enclosure rating Operating temperature Flexible use Stationary position Drag chain operation Drag chain operation	Flexible use	> 10 x cable diameter
Reference voltage \$\leq\$ 30 V Current loading Traversing speed \$\leq\$ 3.3 m/s \$\leq\$ 5 m/s^2 Signal type Authorizations UL recognized in accordance with AWM Style 20549 (80 °C / 300 V), jacket UL recognized in accordance with AWM Style 10493 (80 °C / 300 V), conductor UL File No. CYJV.E335179 Enclosure rating Operating temperature Flexible use Stationary position Drag chain operation Drag chain operation \$\leq\$ 2 A 3.3 m/s \$\leq\$ 5 m/s^2 Sensor/actuator cable UL recognized in accordance with AWM Style 20549 (80 °C / 300 V), jacket UL recognized in accordance with AWM Style 10493 (80 °C / 300 V), conductor UL File No. CYJV.E335179 IP65/ IP67 (EN 60529) Operating temperature Flexible use \$\leq\$ -25 °C +80 °C \$\leq\$ -50 °C +80 °C \$\leq\$ -50 °C +80 °C \$\leq\$ -25 °C +60 °C	Stationary position	> 5 x cable diameter
Current loading 2 A Traversing speed 3.3 m/s Acceleration Signal type Sensor/actuator cable Authorizations UL recognized in accordance with AWM Style 20549 (80 °C / 300 V), jacket UL recognized in accordance with AWM Style 10493 (80 °C / 300 V), conductor UL File No. CYJV.E335179 Enclosure rating Operating temperature Flexible use Stationary position Drag chain operation Pressure ration Pressure ration Stationary position Drag chain operation	Bending cycles	> 2,000,000
Current loading Traversing speed 3.3 m/s Acceleration Signal type Authorizations UL recognized in accordance with AWM Style 20549 (80 °C / 300 V), jacket UL recognized in accordance with AWM Style 10493 (80 °C / 300 V), conductor UL File No. Enclosure rating Operating temperature Flexible use Stationary position Drag chain operation 2 A 3.3 m/s Sensor/actuator cable UL recognized in accordance with AWM Style 20549 (80 °C / 300 V), jacket UL recognized in accordance with AWM Style 10493 (80 °C / 300 V), conductor CYJV.E335179 IP65/ IP67 (EN 60529) Flexible use -25 °C +80 °C -50 °C +80 °C -25 °C +80 °C -25 °C +60 °C	Reference voltage	
Traversing speed Acceleration ≤ 5 m/s² Signal type Sensor/actuator cable UL recognized in accordance with AWM Style 20549 (80 °C / 300 V), jacket UL recognized in accordance with AWM Style 10493 (80 °C / 300 V), conductor UL File No. CYJV.E335179 Enclosure rating IP65/ IP67 (EN 60529) Operating temperature Flexible use Stationary position Drag chain operation Drag chain operation -25 °C +80 °C -25 °C +60 °C		
Acceleration Signal type Authorizations UL recognized in accordance with AWM Style 20549 (80 °C / 300 V), jacket UL recognized in accordance with AWM Style 10493 (80 °C / 300 V), conductor UL File No. CYJV.E335179 Enclosure rating IP65/ IP67 (EN 60529) Operating temperature Flexible use Stationary position Drag chain operation Drag chain operation	Current loading	
Signal type Authorizations UL recognized in accordance with AWM Style 20549 (80 °C / 300 V), jacket UL recognized in accordance with AWM Style 10493 (80 °C / 300 V), conductor UL File No. CYJV.E335179 Enclosure rating IP65/ IP67 (EN 60529) Operating temperature Flexible use Stationary position Drag chain operation Possible use -25 °C +80 °C -25 °C +80 °C -25 °C +80 °C		
Authorizations UL recognized in accordance with AWM Style 20549 (80 °C / 300 V), jacket UL recognized in accordance with AWM Style 10493 (80 °C / 300 V), conductor UL File No. CYJV.E335179 Enclosure rating IP65/ IP67 (EN 60529) Operating temperature Flexible use -25 °C +80 °C -50 °C +80 °C -25 °C +80 °C -25 °C +60 °C	Acceleration	≤ 5 m/s²
UL recognized in accordance with AWM Style 10493 (80 °C / 300 V), conductor UL File No. CYJV.E335179 IP65/ IP67 (EN 60529) Operating temperature Flexible use		
Enclosure rating Operating temperature Flexible use -25 °C +80 °C Stationary position -50 °C +80 °C Drag chain operation -25 °C +60 °C	Authorizations	
Operating temperature Flexible use -25 °C +80 °C Stationary position -50 °C +80 °C Drag chain operation -25 °C +60 °C	UL File No.	CYJV.E335179
Flexible use -25 °C +80 °C Stationary position -50 °C +80 °C Drag chain operation -25 °C +60 °C	Enclosure rating	IP65/ IP67 (EN 60529)
Stationary position -50 °C +80 °C Drag chain operation -25 °C +60 °C	Operating temperature	
Drag chain operation -25 °C +60 °C	Flexible use	-25 °C +80 °C
	Stationary position	-50 °C +80 °C
Head -25 °C +80 °C		
	Head	-25 °C +80 °C

Classifications

ECLASS 5.0	19030312
ECLASS 5.1.4	19030312
ECLASS 6.0	27060304
ECLASS 6.2	27060304
ECLASS 7.0	27060304
ECLASS 8.0	27060304
ECLASS 8.1	27060304
ECLASS 9.0	27060304
ECLASS 10.0	27060304
ECLASS 11.0	27060304
ECLASS 12.0	27060304
ETIM 5.0	EC000830
ETIM 6.0	EC000830
ETIM 7.0	EC003249
ETIM 8.0	EC003249
UNSPSC 16.0901	26121604

Dimensional drawing (Dimensions in mm (inch))



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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.

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