

# DBS60E-TECC01024

DBS60

**INCREMENTAL ENCODERS** 





## Ordering information

Туре	Part no.
DBS60E-TECC01024	1078659

Other models and accessories → www.sick.com/DBS60

Illustration may differ



#### Detailed technical data

#### Performance

Pulses per revolution	1,024
Measuring step	≤ 90°, electric/pulses per revolution
Measuring step deviation	± 18° / pulses per revolution
Error limits	Measuring step deviation x 3
Duty cycle	≤ 0.5 ± 5 %

#### Interfaces

Communication interface	Incremental
Communication Interface detail	TTL / RS-422
Number of signal channels	6-channel
Initialization time	< 5 ms <sup>1)</sup>
Output frequency	+ 300 kHz <sup>2)</sup>
Load current	≤ 30 mA, per channel
Power consumption	≤ 0.5 W (without load)

 $<sup>^{1)}</sup>$  Valid signals can be read once this time has elapsed.

### Electrical data

Connection type	Male connector, M12, 8-pin, radial
Supply voltage	10 30 V
Reference signal, number	1
Reference signal, position	90°, electric, logically gated with A and B
Reverse polarity protection	✓
Short-circuit protection of the outputs	✓ <sup>1)</sup>
MTTFd: mean time to dangerous failure	500 years (EN ISO 13849-1) <sup>2)</sup>

 $<sup>^{1)}</sup>$  Short-circuit opposite to another channel or GND permissible for max. 60 s. No protection signal against U<sub>S</sub>.

 $<sup>^{2)}\,\</sup>mathrm{Up}$  to 450 kHz on request.

<sup>2)</sup> This product is a standard product and does not constitute a safety component as defined in the Machinery Directive. Calculation based on nominal load of components, average ambient temperature 40 °C, frequency of use 8760 h/a. All electronic failures are considered hazardous. For more information, see document no. 8015532.

### Mechanical data

Mechanical design	Through hollow shaft, Front clamp		
Shaft diameter	12 mm		
Flange type / stator coupling	2-sided stator coupling, slot, screw hole circle 63–83 mm		
Weight	+ 0.25 kg <sup>1)</sup>		
Shaft material	Stainless steel		
Flange material	Aluminum		
Housing material	Aluminum		
Start up torque	+ 0.5 Ncm (+20 °C)		
Operating torque	0.4 Ncm (+20 °C)		
Permissible movement static	$\pm$ 0.3 mm (radial) $\pm$ 0.5 mm (axial) $^{2)}$		
Permissible movement dynamic	$\pm$ 0.1 mm (radial) $\pm$ 0.2 mm (axial) <sup>2)</sup>		
Operating speed	6,000 min <sup>-1 3)</sup>		
Maximum operating speed	9,000 min <sup>-1</sup> <sup>4)</sup>		
Moment of inertia of the rotor	50 gcm <sup>2</sup>		
Bearing lifetime	3.6 x 10 <sup>9</sup> revolutions		
Angular acceleration	≤ 500,000 rad/s²		

 $<sup>^{1)}</sup>$  Based on encoder with male connector or cable with male connector.

### Ambient data

EMC	According to EN 61000-6-2 and EN 61000-6-3
Enclosure rating	IP65, housing side (IEC 60529) <sup>1)</sup> IP65, shaft side (IEC 60529)
Permissible relative humidity	90 % (Condensation not permitted)
Operating temperature range	–30 °C +100 °C, at maximum 3,000 pulses per revolution $^{2)}$
Storage temperature range	-40 °C +100 °C, without package
Resistance to shocks	250 g, 3 ms (EN 60068-2-27)
Resistance to vibration	30 g, 10 Hz 2,000 Hz (EN 60068-2-6)

 $<sup>^{1)}</sup>$  With mating connector fitted.

#### Classifications

ECLASS 5.0	27270501
ECLASS 5.1.4	27270501
ECLASS 6.0	27270590
ECLASS 6.2	27270590
ECLASS 7.0	27270501
ECLASS 8.0	27270501

 $<sup>^{2)}\,\</sup>mathrm{Not}\,\mathrm{apllicable}$  for stator coupling type C and K.

 $<sup>^{\</sup>rm 3)}$  Allow for self-heating of 2.6 K per 1,000 rpm when designing the operating temperature range.

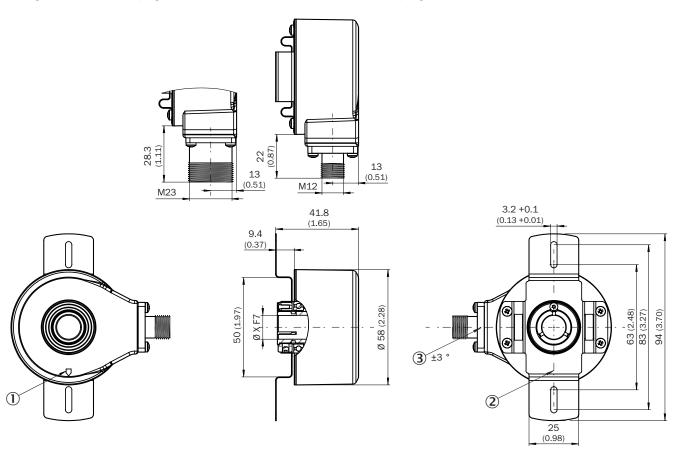
<sup>&</sup>lt;sup>4)</sup> Maximum speed which does not cause mechanical damage to the encoder. Impact on the service life and signal quality is possible. Please note the maximum output frequency.

<sup>&</sup>lt;sup>2)</sup> These values relate to all mechanical versions including recommended accessories unless otherwise noted.

ECLASS 8.1	27270501
ECLASS 9.0	27270501
ECLASS 10.0	27270501
ECLASS 11.0	27270501
ECLASS 12.0	27270501
ETIM 5.0	EC001486
ETIM 6.0	EC001486
ETIM 7.0	EC001486
ETIM 8.0	EC001486
UNSPSC 16.0901	41112113

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

Through hollow shaft clamping at the front, male connector, 2-sided stator coupling, slot, screw hole circle 63–83 mm



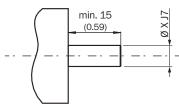
- ① Zero pulse mark on housing
- ② Zero pulse mark on flange under stator coupling
- $\ensuremath{\mathfrak{G}}$  Male connector tolerance in relation to hole pattern

Type Through hollow shaft with front clamping	Shaft diameter XF7
DBS60x-TAxxxxxxxx DBS60x-T1xxxxxxxxx	6 mm
DBS60x-TBxxxxxxxx	8 mm

Type Through hollow shaft with front clamping	Shaft diameter XF7
DBS60x-T2xxxxxxxxx	
DBS60x-TCxxxxxxxx DBS60x-T3xxxxxxxxx	3/8"
DBS60x-TDxxxxxxxx DBS60x-T4xxxxxxxx	10 mm
DBS60x-TExxxxxxxx DBS60x-T5xxxxxxxxx	12 mm
DBS60x-TFxxxxxxxx DBS60x-T6xxxxxxxxx	1/2"
DBS60x-TGxxxxxxxx DBS60x-T7xxxxxxxxx	14 mm
DBS60x-THxxxxxxxx DBS60x-T8xxxxxxxxx	15 mm
DBS60x-TJxxxxxxxxx	5/8"

## Attachment specifications

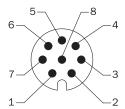
Through hollow shaft with front clamping



#### Customar sida

Type Through hollow shaft with front clamping	Shaft diameter xj7
DBS60x-TAxxxxxxxx DBS60x-T1xxxxxxxxx	6 mm
DBS60x-TBxxxxxxxx DBS60x-T2xxxxxxxxx	8 mm
DBS60x-TCxxxxxxxx DBS60x-T3xxxxxxxxx	3/8"
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DBS60x-TExxxxxxxx DBS60x-T5xxxxxxxxx	12 mm
DBS60x-TFxxxxxxxx DBS60x-T6xxxxxxxxx	1/2"
DBS60x-TGxxxxxxxx DBS60x-T7xxxxxxxxx	14 mm
DBS60x-THxxxxxxxx DBS60x-T8xxxxxxxxx	15 mm
DBS60x-TJxxxxxxxxx	5/8"

## PIN assignment

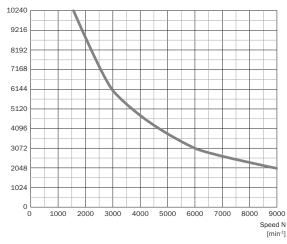


View of M12 male device connector on cable / housing

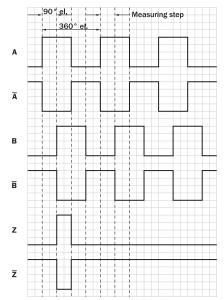
Wire colors (ca- ble connection)	Male connector M12, 8-pin	Male connec- tor M23, 12-pin	TTL/HTL 6- channel signal	Explanation
Brown	1	6	A-	Signal wire
White	2	5	Α	Signal wire
Black	3	1	B-	Signal wire
Pink	4	8	В	Signal wire
Yellow	5	4	Z-	Signal wire
Purple	6	3	Z	Signal wire
Blue	7	10	GND	Ground connection
Red	8	12	+U <sub>s</sub>	Supply voltage
-	-	9	Not assigned	Not assigned
-	-	2	Not assigned	Not assigned
-	-	11	Not assigned	Not assigned
-	-	7	Not assigned	Not assigned
Screen	Screen	Screen	Screen	Screen connected to encoder housing

## **Diagrams**





Signal outputs for electrical interfaces TTL and HTL

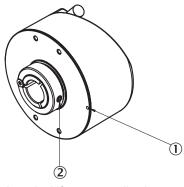


Cw with view on the encoder shaft in direction "A", compare dimensional drawing.

Supply voltage	Output
4,5 V 5,5 V	ΠL
10 V 30 V	ΠL
10 V 27 V	HTL
4,5 V 30 V	TTL/HTL universal
4,5 V 30 V	ΠL

## Operation note

Hollow shaft



Attention! If stator coupling is mounted, the zero pulse mark can be hidden by the stator coupling

- ① Zero pulse mark on flange
- ② Zero pulse is active when screw of clamping is inline with zero pulse mark on flange or housing mark

## Recommended accessories

Other models and accessories → www.sick.com/DBS60

is intended for very large radial and axial shaft loads. Particularly for application on: Belt pulsey. Chain pilotions. Priction wheels: Lis designed this way to enable fitting of encoder with blind hollow shaft with a 12 mm. Operating speed max. 6.000 rpm^1.1 axial shaft load 100 N, radial shaft load 100 N, bearing service life 3.6 x 10^9 revolutions, fastening screws included  **Connection type head &: Flying leads  **Connection type head B: Flying leads  **Signal type: SS, Incremental, shielded  **Rems supplied: By the meter  **Connection type head B: Flying leads  **Signal type: SS, Incremental, shielded, Head A: cable Head B: cable Cable: Suitable for drag chain, P.W., Flaigeagen-free  **Description SS, ITL, H.T., Incremental, Shielded, Head A: cable Head B: cable Cable: Suitable for drag chain, P.W., Ralegen-free  **Connection type head B: Flying leads  **Connection type head B: Flying leads  **Signal type: Signal type: Signal type: Signal type: Signal type: Signal type: Signal type: Incremental, SSI  **Cable: 2: m. m. wine, Plying leads  **Connection type head B: Flying leads  **Connection type head B: Flying leads  **Connection type head B: Flying leads  ***Connection type head B: Flying leads  ***Connection type head		Brief description	Туре	Part no.
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Connection type head A: Flying leads Connection type head B: Flying leads Signal type: SSI, Incremental, HIPERFACE® Cable: 8-wire, PUR, halogen-free Description: SSI, Incremental, HIPERFACE®, shielded Items supplied: 59 the meter Connection type head A: Flying leads Signal type: SSI, Incremental Connection type head B: Flying leads Signal type: SSI, Incremental Signal type: SSI, Incremental Cable: 12-wire, PUR Description: SSI, Incremental Signal type: SSI, Incremental Signal type: SSI, Incremental Cable: 12-wire, PUR, halogen-free Description: SSI, TIL, HITL, Incremental Cable: 12-wire, Van and saltwater-resistant, PUR, halogen-free Description: SSI, TIL, HITL, Incremental Cable: 12-wire, Van and Saltwater-resistant, PUR, halogen-free Description: SSI, TIL, HITL, Incremental Cable: 12-wire, Van and saltwater-resistant, PUR, halogen-free Description: SSI, TIL, HITL, Incremental Cable: 12-wire, Van and saltwater-resistant, PUR, halogen-free Description: Incremental, SSI, Shielded, Head A: female connector, M12, 8-pin, straight Connection type head A: Female connector, M12, 8-pin, straight Connection type head B: Flying leads Cable: 2 m, 8 wire, PUR, halogen-free Description: Incremental, SSI, shielded, Head A: female connector, M12, 8-pin, straight Head B: cable Cable: suitable for drag chain, PVC, shielded, 4 x 2 x Q.25 mm², 9 7.0 mm Connection type head A: Female connector, M12, 8-pin, straight Connection type head B: Flying leads Connection type head B: Flyi	9)	is intended for very large radial and axial shaft loads. Particularly for application on: Belt pulleys, Chain pinions, Friction wheels. It is designed this way to enable fitting of encoder with blind hollow shaft with ø 12 mm. Operating speed max. 6,000 rpm^-1, axial shaft load 100 N, radial shaft load 100 N, bearing service life 3.6 x 10^9 revolutions,	BEF-FA-B12-010	2042728
Connection type head &: Flying leads Signal type: SSI, Incremental, HIPERFACE®, shielded Items supplied: By the meter Connection type head &: Flying leads Signal type: SSI, Incremental Cable: 11-wire, PUR, PuR Description: SSI, Incremental Cable: 11-wire, PUR Description: SSI, Incremental Connection type head &: Flying leads Connection type head &: Flying leads Signal type: SSI, Incremental Cable: 12-wire, PUR, PuR, PuR, PuR, PuR, PuR, PuR, PuR, Pu	thers			
• Connection type head B: Flying leads • Signal type: SSI, Incremental, shielded • Items supplied: By the meter  • Connection type head A: Flying leads • Connection type head B: Flying leads • Signal type: SSI, Incremental, shielded • Items supplied: By the meter  • Connection type head B: Flying leads • Signal type: SSI, Incremental • Cable: 12-wire, PUR, halogen-free • Description: SSI, Incremental, shielded • Items supplied: By the meter  • Connection type head A: Flying leads • Connection type head B: Flying leads • Connection type head B: Flying leads • Signal type: SSI, TTL, HTL, Incremental • Cable: 12-wire, UV and saltwater-resistant, PUR, halogen-free • Description: SSI, TTL, HTL, Incremental, shielded, Head A: cable Head B: cable Cable: suitable for drag chain, PUR, halogen-free, shielded, UV and saltwater resistant, 4 x 2 x 0.25 mm² a 2 x 0.5 mm² a 2 x 0.14 mm², 0 7.8 mm • Items supplied: By the meter  • Connection type head B: Flying leads • Signal type: Incremental, SSI • Cable: 2 m, 8-wire, PUR, halogen-free • Description: Incremental, SSI, shielded, Head A: female connector, M12, 8-pin, straight Head B: cable Cable: suitable for drag chain, PVC, shielded, 4 x 2 x 0.25 mm², 0 7.0 mm • Connection type head B: Flying leads • Signal type: Incremental, SSI, shielded, Head A: female connector, M12, 8-pin, straight Head B: cable Cable: suitable for drag chain, PVC, shielded, 4 x 2 x 0.25 mm², 0 7.0 mm • Connection type head B: Flying leads • Signal type: Incremental, SSI, shielded, Head A: female connector, M12, 8-pin, straight Head B: cable Cable: suitable for drag chain, PVC, shielded, 4 x 2 x 0.25 mm², 0 7.0 mm • Connection type head B: Flying leads • Signal type: Incremental, SSI, shielded, Head A: female connector, M12, 8-pin, straight Head B: cable Cable: suitable for drag chain, PVC, shielded, 4 x 2 x 0.25 mm², 0 7.0 mm • Connection type head B: Flying leads • Signal type: Incremental, SSI, shielded, Head A: female connector, M12, 8-pin, straight Head B: cable Cable: suitable for drag chain, PVC,		<ul> <li>Connection type head B: Flying leads</li> <li>Signal type: SSI, Incremental, HIPERFACE®</li> <li>Cable: 8-wire, PUR, halogen-free</li> <li>Description: SSI, Incremental, HIPERFACE®, shielded</li> </ul>	LTG-2308-MWENC	6027529
Connection type head B: Flying leads Signal type: SSI, Incremental Cable: 12-wire, PUR, halogen-free Description: SSI, Incremental, shielded Items supplied: By the meter  Connection type head A: Flying leads Signal type: SSI, TIT, HTL, Incremental Cable: 12-wire, UV and saltwater-resistant, PUR, halogen-free Description: SSI, TTL, HTL, Incremental Cable: 12-wire, UV and saltwater-resistant, PUR, halogen-free Description: SSI, TTL, HTL, Incremental, shielded, Head A: cable Head B: cable Cable: suitable for drag chain, PUR, halogen-free, shielded, UV and saltwater resistant, 4 x 2 x 0.25 mm² + 2 x 0.5 mm² + 2 x 0.14 mm², Ø 7.8 mm Items supplied: By the meter Connection type head A: Female connector, M12, 8-pin, straight Connection type head B: Flying leads Signal type: Incremental, SSI Cable: 2 m, 8-wire, PUR, halogen-free Description: Incremental, SSI, shielded, Head A: female connector, M12, 8-pin, straight Head B: cable Cable: suitable for drag chain, PVC, shielded, 4 x 2 x 0.25 mm², Ø 7.0 mm Connection type head A: Female connector, M12, 8-pin, straight Head B: cable Cable: suitable for drag chain, PVC, shielded, 4 x 2 x 0.25 mm², Ø 7.0 mm Connection systems: Flying leads Cable: 5 m, 8-wire, PUR, halogen-free Description: Incremental, SSI Cable: 10 m, 8-wire, PUR, halogen-free Description: Incremental, SSI Cable: 10 m, 8-wire, PUR, halogen-free Description: Incremental, SSI Cable: 10 m, 8-wire, PUR, halogen-free Description: Incremental, SSI Cable: 10 m, 8-wire, PUR, halogen-free Description: Incremental, SSI, shielded, Head A: female connector, M12, 8-pin, straight Head B: Cable Cable: suitable for drag chain, PVC, shielded, 4 x 2 x 0.25 mm², Ø 7.0 mm Connection type head B: Flying leads Signal type: Incremental, SSI, shielded, Head A: female connector, M12, 8-pin, straight Head B: Cable Cable: suitable for drag chain, PVC, shielded, 4 x 2 x 0.25 mm², Ø 7.0 mm	<u></u>	<ul> <li>Connection type head B: Flying leads</li> <li>Signal type: SSI, Incremental</li> <li>Cable: 11-wire, PUR</li> <li>Description: SSI, Incremental, shielded</li> </ul>	LTG-2411-MW	6027530
Connection type head B: Flying leads Signal type: SSI, TTL, HTL, Incremental Cable: 12-wire, UV and saltwater-resistant, PUR, halogen-free Description: SSI, TTL, HTL, Incremental, shielded, Head A: cable Head B: cable Cable: suitable for drag chain, PUR, halogen-free, shielded, UV and saltwater resistant, 4 x 2 x 0.25 mm² + 2 x 0.5 mm² + 2 x 0.14 mm², Ø 7.8 mm Items supplied: By the meter Connection type head A: Female connector, M12, 8-pin, straight Connection type head B: Flying leads Signal type: Incremental, SSI Cable: 2 m, 8-wire, PUR, halogen-free Description: Incremental, SSI, shielded, Head A: female connector, M12, 8-pin, straight Head B: cable Cable: suitable for drag chain, PVC, shielded, 4 x 2 x 0.25 mm², Ø 7.0 mm Connection type head A: Female connector, M12, 8-pin, straight Connection type head A: Flying leads Signal type: Incremental, SSI Cable: 5 m, 8-wire, PUR, halogen-free Description: Incremental, SSI, shielded, Head A: female connector, M12, 8-pin, straight Head B: cable Cable: suitable for drag chain, PVC, shielded, 4 x 2 x 0.25 mm², Ø 7.0 mm Connection type head A: Female connector, M12, 8-pin, straight Head B: cable Cable: suitable for drag chain, PVC, shielded, 4 x 2 x 0.25 mm², Ø 7.0 mm Connection type head A: Female connector, M12, 8-pin, straight Head B: cable Cable: suitable for drag chain, PVC, shielded, 4 x 2 x 0.25 mm², Ø 7.0 mm Connection type head A: Female connector, M12, 8-pin, straight Head B: cable Cable: suitable for drag chain, PVC, shielded, 4 x 2 x 0.25 mm², Ø 7.0 mm		<ul> <li>Connection type head B: Flying leads</li> <li>Signal type: SSI, Incremental</li> <li>Cable: 12-wire, PUR, halogen-free</li> <li>Description: SSI, Incremental, shielded</li> </ul>	LTG-2512-MW	6027531
Connection type head B: Flying leads Signal type: Incremental, SSI Cable: 2 m, 8-wire, PUR, halogen-free Description: Incremental, SSI, shielded, Head A: female connector, M12, 8-pin, straight Head B: cable Cable: suitable for drag chain, PVC, shielded, 4 x 2 x 0.25 mm², Ø 7.0 mm Connection type head A: Female connector, M12, 8-pin, straight Connection type head B: Flying leads Signal type: Incremental, SSI Cable: 5 m, 8-wire, PUR, halogen-free Description: Incremental, SSI, shielded, Head A: female connector, M12, 8-pin, straight Head B: cable Cable: suitable for drag chain, PVC, shielded, 4 x 2 x 0.25 mm², Ø 7.0 mm Connection type head A: Female connector, M12, 8-pin, straight Connection type head B: Flying leads Signal type: Incremental, SSI Cable: 10 m, 8-wire, PUR, halogen-free Description: Incremental, SSI, shielded, Head A: female connector, M12, 8-pin, straight Head B: cable Cable: suitable for drag chain, PVC, shielded, 4 x 2 x 0.25 mm², Ø 7.0 mm DOL-1208-G10MAC1 ODL-1208-G10MAC1 DOL-1208-G10MAC1 ODL-1208-G10MAC1 ODL-1208-G10MAC1		<ul> <li>Connection type head B: Flying leads</li> <li>Signal type: SSI, TTL, HTL, Incremental</li> <li>Cable: 12-wire, UV and saltwater-resistant, PUR, halogen-free</li> <li>Description: SSI, TTL, HTL, Incremental, shielded, Head A: cable Head B: cable Cable: suitable for drag chain, PUR, halogen-free, shielded, UV and saltwater resistant, 4 x 2 x 0.25 mm² + 2 x 0.5 mm² + 2 x 0.14 mm², Ø 7.8 mm</li> </ul>	LTG-2612-MW	6028516
<ul> <li>Connection type head B: Flying leads</li> <li>Signal type: Incremental, SSI</li> <li>Cable: 5 m, 8-wire, PUR, halogen-free</li> <li>Description: Incremental, SSI, shielded, Head A: female connector, M12, 8-pin, straight Head B: cable Cable: suitable for drag chain, PVC, shielded, 4 x 2 x 0.25 mm², Ø 7.0 mm</li> <li>Connection systems: Flying leads</li> <li>Connection type head A: Female connector, M12, 8-pin, straight</li> <li>Connection type head B: Flying leads</li> <li>Signal type: Incremental, SSI</li> <li>Cable: 10 m, 8-wire, PUR, halogen-free</li> <li>Description: Incremental, SSI, shielded, Head A: female connector, M12, 8-pin, straight Head B: cable Cable: suitable for drag chain, PVC, shielded, 4 x 2 x 0.25 mm², Ø 7.0 mm</li> </ul>		<ul> <li>Connection type head B: Flying leads</li> <li>Signal type: Incremental, SSI</li> <li>Cable: 2 m, 8-wire, PUR, halogen-free</li> <li>Description: Incremental, SSI, shielded, Head A: female connector, M12, 8-pin, straight Head B: cable Cable: suitable for drag chain, PVC, shielded, 4 x 2 x 0.25 mm², Ø 7.0 mm</li> </ul>	DOL-1208-G02MAC1	6032866
<ul> <li>Connection type head B: Flying leads</li> <li>Signal type: Incremental, SSI</li> <li>Cable: 10 m, 8-wire, PUR, halogen-free</li> <li>Description: Incremental, SSI, shielded, Head A: female connector, M12, 8-pin, straight Head B: cable Cable: suitable for drag chain, PVC, shielded, 4 x 2 x 0.25 mm², Ø 7.0 mm</li> </ul>		<ul> <li>Connection type head B: Flying leads</li> <li>Signal type: Incremental, SSI</li> <li>Cable: 5 m, 8-wire, PUR, halogen-free</li> <li>Description: Incremental, SSI, shielded, Head A: female connector, M12, 8-pin, straight Head B: cable Cable: suitable for drag chain, PVC, shielded, 4 x 2 x 0.25 mm², Ø 7.0 mm</li> </ul>	DOL-1208-G05MAC1	6032867
		<ul> <li>Connection type head B: Flying leads</li> <li>Signal type: Incremental, SSI</li> <li>Cable: 10 m, 8-wire, PUR, halogen-free</li> <li>Description: Incremental, SSI, shielded, Head A: female connector, M12, 8-pin, straight Head B: cable Cable: suitable for drag chain, PVC, shielded, 4 x 2 x</li> </ul>	DOL-1208-G10MAC1	6032868

Brief description	Туре	Part no.
<ul> <li>Connection type head A: Female connector, M12, 8-pin, straight</li> <li>Connection type head B: Flying leads</li> <li>Signal type: Incremental, SSI</li> <li>Cable: 20 m, 8-wire, PUR, halogen-free</li> <li>Description: Incremental, SSI, shielded, Head A: female connector, M12, 8-pin, straight Head B: cable Cable: suitable for drag chain, PVC, shielded, 4 x 2 x 0.25 mm², Ø 7.0 mm</li> <li>Connection systems: Flying leads</li> </ul>	DOL-1208-G20MAC1	6032869
<ul> <li>Connection type head A: Female connector, M12, 8-pin, straight</li> <li>Connection type head B: Flying leads</li> <li>Signal type: Incremental, SSI</li> <li>Cable: 25 m, 8-wire, PUR, halogen-free</li> <li>Description: Incremental, SSI, shielded, Head A: female connector, M12, 8-pin, straight Head B: cable Cable: suitable for drag chain, PVC, shielded, 4 x 2 x 0.25 mm², Ø 7.0 mm</li> <li>Connection systems: Flying leads</li> </ul>	DOL-1208-G25MAC1	6067859
<ul> <li>Connection type head A: Female connector, M12, 8-pin, straight, A-coded</li> <li>Signal type: Incremental, SSI</li> <li>Cable: CAT5, CAT5e</li> <li>Description: Incremental, SSI, shielded, Head A: female connector, M12, 8-pin, straight, A encoded, shielded, for cable diameter 4 mm 8 mm Head B: - Operating temperature: -40 °C +85 °C</li> <li>Connection systems: IDC quick connection</li> <li>Permitted cross-section: 0.14 mm² 0.34 mm²</li> </ul>	DOS-1208-GA01	6045001
<ul> <li>Connection type head A: Female connector, M12, 8-pin, straight, A-coded</li> <li>Connection type head B: Male connector, M12, 8-pin, straight, A-coded</li> <li>Cable: 20 m, 8-wire, PUR, halogen-free</li> <li>Description: Shielded</li> <li>Permitted cross-section: ≤ 0.25 mm²</li> <li>Note: Drag chain use</li> <li>Application: Drag chain operation</li> </ul>	YF2AA8- 200S01MKA18	2099208
• Connection type head A: Female connector, M12, 8-pin, straight, A-coded • Connection type head B: Male connector, M12, 8-pin, straight, A-coded • Cable: 2 m, 8-wire, PUR, halogen-free • Description: Shielded • Permitted cross-section: ≤ 0.25 mm² • Note: Drag chain use • Application: Drag chain operation	YF2AA8- 020S01MKA18	2099207
<ul> <li>Connection type head A: Female connector, M12, 8-pin, straight, A-coded</li> <li>Connection type head B: Male connector, M12, 8-pin, straight, A-coded</li> <li>Cable: 5 m, 8-wire, PUR, halogen-free</li> <li>Description: Shielded</li> <li>Permitted cross-section: ≤ 0.25 mm²</li> <li>Note: Drag chain use</li> <li>Application: Drag chain operation</li> </ul>	YF2AA8- 050S01MKA18	2099209
<ul> <li>Connection type head A: Female connector, M12, 8-pin, straight, A-coded</li> <li>Connection type head B: Male connector, M12, 8-pin, straight, A-coded</li> <li>Cable: 10 m, 8-wire, PUR, halogen-free</li> <li>Description: Shielded</li> <li>Permitted cross-section: ≤ 0.25 mm²</li> <li>Note: Drag chain use</li> <li>Application: Drag chain operation</li> </ul>	YF2AA8- 100S01MKA18	2099210
<ul> <li>Connection type head A: Female connector, M12, 8-pin, angled</li> <li>Connection type head B: Flying leads</li> <li>Signal type: HIPERFACE<sup>®</sup>, Incremental</li> <li>Cable: 2 m, 8-wire, PUR, halogen-free</li> <li>Description: HIPERFACE<sup>®</sup>, Incremental, shielded</li> </ul>	DOL-1208-W02MAC1	6037724

	Brief description	Туре	Part no.
	Connection type head A: Female connector, M12, 8-pin, angled Connection type head B: Flying leads Signal type: HIPERFACE®, Incremental Cable: 5 m, 8-wire, PUR, halogen-free Description: HIPERFACE®, Incremental, shielded	DOL-1208-W05MAC1	6037725
	Connection type head A: Female connector, M12, 8-pin, angled Connection type head B: Flying leads Signal type: HIPERFACE®, Incremental Cable: 10 m, 8-wire, PUR, halogen-free Description: HIPERFACE®, Incremental, shielded	DOL-1208-W10MAC1	6037726
	Connection type head A: Female connector, M12, 8-pin, angled Connection type head B: Flying leads Signal type: HIPERFACE <sup>®</sup> , Incremental Cable: 20 m, 8-wire, PUR Description: HIPERFACE <sup>®</sup> , Incremental, shielded	DOL-1208-W20MAC1	6037727
	<ul> <li>Connection type head A: Female connector, M12, 8-pin, angled</li> <li>Connection type head B: Flying leads</li> <li>Cable: 2 m, 8-wire, PVC</li> <li>Description: Shielded</li> <li>Connection systems: Flying leads</li> </ul>	DOL-1208-W02MA	6020992
	<ul> <li>Connection type head A: Female connector, M12, 8-pin, angled</li> <li>Connection type head B: Flying leads</li> <li>Signal type: Sensor/actuator cable</li> <li>Cable: 2 m, 8-wire, PUR, halogen-free</li> <li>Description: Sensor/actuator cable, shielded</li> <li>Connection systems: Flying leads</li> </ul>	DOL-1208- W02MAS01	6029224
>	<ul> <li>Connection type head A: Female connector, M12, 8-pin, angled</li> <li>Connection type head B: Flying leads</li> <li>Cable: 2 m, 8-wire, PUR, halogen-free</li> <li>Description: Unshielded, Cable, M12, 8-pin, angled connector female with molded cable, 2 m, PUR halogen free</li> </ul>	DOL-1208-W02MC	6035623
	<ul> <li>Connection type head A: Female connector, M12, 8-pin, angled</li> <li>Connection type head B: Flying leads</li> <li>Cable: 5 m, 8-wire, PVC</li> <li>Description: Shielded</li> <li>Connection systems: Flying leads</li> </ul>	DOL-1208-W05MA	6021033
9	<ul> <li>Connection type head A: Female connector, M12, 8-pin, angled</li> <li>Connection type head B: Flying leads</li> <li>Cable: 5 m, 8-wire, PUR</li> <li>Description: Unshielded, Cable, M12, 8-pin, angled connector female with molded cable, 5 m, PUR halogen free</li> </ul>	DOL-1208-W05MC	6035624
9	<ul> <li>Connection type head A: Female connector, M12, 8-pin, angled</li> <li>Connection type head B: Flying leads</li> <li>Cable: 10 m, 8-wire, PUR, halogen-free</li> <li>Description: Unshielded, Cable, M12, 8-pin, angled connector female with molded cable, 10 m, PUR halogen free</li> </ul>	DOL-1208-W10MC	6035625

## 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.

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