

DBS60E-TJEK02500

DBS60

INCREMENTAL ENCODERS





Ordering information

Туре	part no.
DBS60E-TJEK02500	1073172

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





Detailed technical data

Safety-related parameters

MTTF _D (mean time to dangerous failure)	500 years (EN ISO 13849-1) 1)

¹⁾ 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.

Performance

Pulses per revolution	2,500
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	HTL / Push pull
Number of signal channels	6-channel
Initialization time	< 5 ms ¹⁾
Output frequency	+ 300 kHz ²⁾
Load current	≤ 30 mA, per channel
Power consumption	≤ 1 W (without load)

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

Electronics

Connection type	Cable, 8-wire, universal, 1.5 m ¹⁾
Supply voltage	10 27 V
Reference signal, number	1
Reference signal, position	90°, electric, logically gated with A and B

¹⁾ The universal cable connection is positioned so that it is possible to lay it without bends in a radial or axial direction.

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

 $^{^{2)}\,\}mbox{Short-circuit}$ opposite to another channel, US or GND permissable for maximum 30 s.

Reverse polarity protection	J
Short-circuit protection of the outputs	✓ ²⁾

 $^{^{1)}}$ The universal cable connection is positioned so that it is possible to lay it without bends in a radial or axial direction.

Mechanics

Mechanical design	Through hollow shaft
Shaft diameter	5/8" Front clamp
Flange type / stator coupling	2-sided stator coupling, slot, screw hole circle 63–83 mm
Weight	+ 0.25 kg ¹⁾
Shaft material	Stainless steel
Flange material	Aluminum
Housing material	Aluminum
Material, cable	PVC
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) ²⁾
Operating speed	6,000 min ^{-1 3)}
Maximum operating speed	9,000 min ⁻¹ ⁴⁾
Moment of inertia of the rotor	50 gcm ²
Bearing lifetime	3.6 x 10 ⁹ revolutions
Angular acceleration	≤ 500,000 rad/s²

 $^{^{1)}}$ 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) IP65, shaft side (IEC 60529)
Permissible relative humidity	90 % (Condensation not permitted)
Operating temperature range	-20 °C +85 °C ¹⁾
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)

 $^{^{1)}}$ These values relate to all mechanical versions including recommended accessories unless otherwise noted.

Certificates

EU declaration of conformity	✓
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 $^{^{2)}\,\}mbox{Short-circuit}$ opposite to another channel, US or GND permissable for maximum 30 s.

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

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

⁴⁾ 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.

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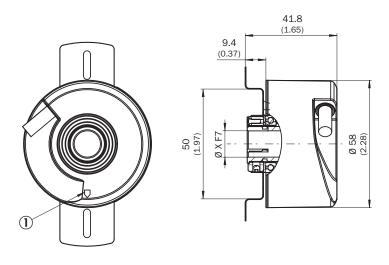
INCREMENTAL ENCODERS

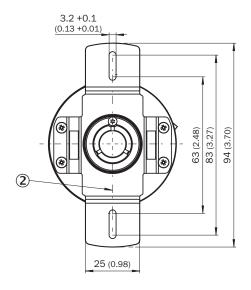
UK declaration of conformity	✓
ACMA declaration of conformity	✓
China RoHS	✓
cULus certificate	✓
Information according to Art. 3 of Data Act (Regulation EU 2023/2854)	✓

Classifications

ASS 5.0	27270501
ASS 5.1.4	27270501
ASS 6.0	27270590
ASS 6.2	27270590
ASS 7.0	27270501
ASS 8.0	27270501
ASS 8.1	27270501
ASS 9.0	27270501
ASS 10.0	27270501
ASS 11.0	27270501
ASS 12.0	27270501
/I 5.0	EC001486
/I 6.0	EC001486
/I 7.0	EC001486
/I 8.0	EC001486
PSC 16.0901	41112113

Dimensional drawing





Dimensions in mm (inch)

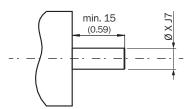
XF7 values see shaft diameter table for through hollow shaft, clamping at the front

① Zero pulse mark on housing

② zero pulse mark on flange under stator coupling

TypeThrough hollow shaft with front clamping	Shaft diameter XF7
DBS60x-TAxxxxxxxxx DBS60x-T1xxxxxxxxx	6 mm
DBS60x-TBxxxxxxxxx DBS60x-T2xxxxxxxxx	8 mm
DBS60x-TCxxxxxxxxx DBS60x-T3xxxxxxxxx	3/8″
DBS60x-TDxxxxxxxx DBS60x-T4xxxxxxxxx	10 mm
DBS60x-TExxxxxxxxx DBS60x-T5xxxxxxxxx	12 mm
DBS60x-TFxxxxxxxx DBS60x-T6xxxxxxxxx	1/2"
DBS60x-TGxxxxxxxxx DBS60x-T7xxxxxxxxx	14 mm
DBS60x-THxxxxxxxxx DBS60x-T8xxxxxxxxx	15 mm
DBS60x-TJxxxxxxxxx	5/8″
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Attachment specifications Through hollow shaft with front clamping



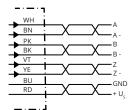
customer side

TypeThrough hollow shaft with front clamping	Shaft diameter xj7
DBS60x-TAxxxxxxxx DBS60x-T1xxxxxxxxx	6 mm
DBS60x-TBxxxxxxxx DBS60x-T2xxxxxxxxx	8 mm
DBS60x-TCxxxxxxxxx DBS60x-T3xxxxxxxxx	3/8"
DBS60x-TDxxxxxxxx DBS60x-T4xxxxxxxxx	10 mm
DBS60x-TExxxxxxxxx DBS60x-T5xxxxxxxxx	12 mm
DBS60x-TFxxxxxxxxx DBS60x-T6xxxxxxxxx	1/2"
DBS60x-TGxxxxxxxxx DBS60x-T7xxxxxxxxx	14 mm
DBS60x-THxxxxxxxxx DBS60x-T8xxxxxxxxx	15 mm
DBS60x-TJxxxxxxxxx	5/8"

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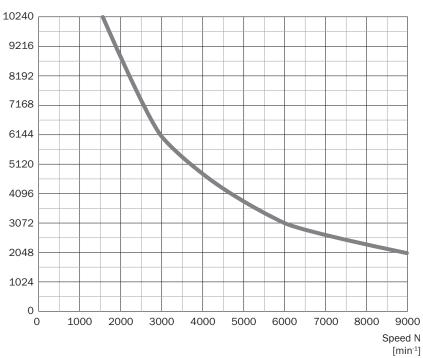
PIN assignment



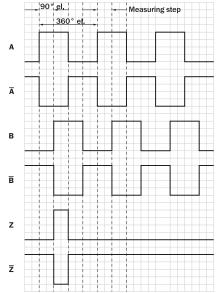
Wire colors (ca- ble connection)	Male connector M12, 8-pin	Male connector M23, 12-pin	TTL/HTL 6- channel signal	Explanation
Brown	1	6	A-	Signal wire
White	2	5	Α	Signal wire
Black	3	1	B-	Signal wire
Pink	4	8	В	Signal wire
Yellow	5	4	Z-	Signal wire
Purple	6	3	Z	Signal wire
Blue	7	10	GND	Ground connection
Red	8	12	+U _s	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





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

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

Recommended accessories

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

	Brief description	Туре	part no.		
connectors a	connectors and cables				
<u></u>	Connection type head A: Flying leads Connection type head B: Flying leads Signal type: SSI, Incremental, HIPERFACE® Items supplied: By the meter Cable: 8-wire, PUR, halogen-free Description: SSI, shielded, Incremental, HIPERFACE®	LTG-2308-MWENC	6027529		
<u></u>	Connection type head A: Flying leads Connection type head B: Flying leads Signal type: SSI, Incremental Items supplied: By the meter Cable: 11-wire, PUR Description: SSI, shielded, Incremental	LTG-2411-MW	6027530		
	Connection type head A: Flying leads Connection type head B: Flying leads Signal type: SSI, Incremental Items supplied: By the meter Cable: 12-wire, PUR, halogen-free Description: SSI, shielded, Incremental	LTG-2512-MW	6027531		
\	Connection type head A: Flying leads Connection type head B: Flying leads Signal type: SSI, TTL, HTL, Incremental Items supplied: By the meter Cable: 12-wire, UV and saltwater-resistant, PUR, halogen-free Description: SSI, shielded, TTL, HTL, Incremental	LTG-2612-MW	6028516		
	Connection type head A: Male connector, M23, 12-pin, straight, A-coded Signal type: HIPERFACE [®] , SSI, Incremental Description: HIPERFACE [®] , shieldedSSIIncremental Connection systems: Solder connection	STE-2312-G01	2077273		
	Connection type head A: Male connector, M23, 12-pin, straight, A-coded Signal type: HIPERFACE®, SSI, Incremental Description: HIPERFACE®, shieldedSSIIncremental Connection systems: Solder connection	STE-2312-GX	6028548		
	Connection type head A: Male connector, M12, 8-pin, straight, A-coded Signal type: Incremental Cable: CAT5, CAT5e Description: Incremental, shielded Connection systems: IDC quick connection Permitted cross-section: 0.14 mm² 0.34 mm²	STE-1208-GA01	6044892		

Product: Collets Description: Collet metal for hollow shaft, shaft diameter 11 mm, outer diameter 5,8% (15,875 mm) Product: Collets Description: Collet plastic (PEEK) insulated for hollow shaft, shaft diameter 15 mm, outer diameter 6,8% (15,875 mm) Product: Saft adaptation Product: Collets Description: Collet plastic (PEEK) insulated for hollow shaft, shaft diameter 14 mm, outer diameter 15 plastic (PEEK) insulated for hollow shaft, shaft diameter 12 mm, outer diameter 15/8" (15,875 mm) Product: Collets Description: Collet plastic (PEEK) insulated for hollow shaft, shaft diameter 12 mm, outer diameter 15/8" (15,875 mm) Product segment: Shaft adaptation Product: Collets Description: Collet plastic (PEEK) insulated for hollow shaft, shaft diameter 10 mm, outer diameter 5/8" (15,875 mm) Product: Collets Description: Collet plastic (PEEK) insulated for hollow shaft, shaft diameter 8 mm, outer diameter 5/8" (15,875 mm) Product: Collets Description: Collet plastic (PEEK) insulated for hollow shaft, shaft diameter 8 mm, outer diameter 5/8" (15,875 mm) Product: Collets Description: Collet plastic (PEEK) insulated for hollow shaft, shaft diameter 6 mm, outer diameter 5/8" (15,875 mm) Product: Collets Description: Collet plastic (PEEK) insulated for hollow shaft, shaft diameter 6 mm, outer diameter 5/8" (15,875 mm) Product: Collets Description: Collet plastic (PEEK) insulated for hollow shaft, shaft diameter 1/2" (12,7 mm), outer diameter 5/8" (15,875 mm) Product: Collets Description: Collet plastic (PEEK) insulated for hollow shaft, shaft diameter 3/8" (9,525 mm), outer diameter 5/8" (15,875 mm) Product: Collets Description: Collet plastic (PEEK) insulated for hollow shaft, shaft diameter 3/8" (9,525 mm), outer diameter 5/8" (15,875 mm) Product: Collets Description: Collet plastic (PEEK) insulated for hollow shaft, shaft diameter 3/8" (9,525 mm), outer diameter 5/8" (15,875 mm) Product segment: Shaft adaptation Product: Collets Description: Collet plastic (PEEK) insulated for hollow shaft, shaft diameter 3/8" (9,525 mm)		Brief description	Туре	part no.		
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Product: Collets Description: Collet plastic (PEEK) insulated for hollow shaft, shaft diameter 14 mm, outer diameter 5/8" (15.875 mm) Product segment: Shaft adaptation Product: Collets Description: Collet plastic (PEEK) insulated for hollow shaft, shaft diameter 12 mm, outer diameter 5/8" (15.875 mm) Product: Collets Description: Collet plastic (PEEK) insulated for hollow shaft, shaft diameter 10 mm, outer diameter 15/8" (15.875 mm) Product: Collets Description: Collet plastic (PEEK) insulated for hollow shaft, shaft diameter 8 mm, outer diameter 5/8" (15.875 mm) Product: Collets Description: Collet plastic (PEEK) insulated for hollow shaft, shaft diameter 8 mm, outer diameter 5/8" (15.875 mm) Product: Collets Description: Collet plastic (PEEK) insulated for hollow shaft, shaft diameter 6 mm, outer diameter 5/8" (15.875 mm) Product: Collets Description: Collet plastic (PEEK) insulated for hollow shaft, shaft diameter 1/2" (12.7 mm), outer diameter 5/8" (15.875 mm) Product: Collets Description: Collet plastic (PEEK) insulated for hollow shaft, shaft diameter 1/2" (12.7 mm), outer diameter 5/8" (15.875 mm) Product: Collets Description: Collet plastic (PEEK) insulated for hollow shaft, shaft diameter 3/8" (9.525 mm), outer diameter 5/8" (15.875 mm) Product: Collets Description: Collet plastic (PEEK) insulated for hollow shaft, shaft diameter 3/8" (9.525 mm), outer diameter 5/8" (15.875 mm) Product: Collets Description: Collet metal for hollow shaft, shaft diameter 1/2" (12.7 mm), outer diameter 5/8" (15.875 mm) Product: Collets Description: Collet metal for hollow shaft, shaft diameter 3/8" (9.525 mm), outer diameter 5/8" (15.875 mm) Product: Collets Description: Collet metal for hollow shaft, shaft diameter 3/8" (9.525 mm), outer diameter 5/8" (15.875 mm) Product: Collets Description: Collet metal for hollow shaft, shaft diameter 3/8" (9.525 mm), outer diameter 5/8" (15.875 mm) Product: Collets Description: Collet metal for hollow shaft, shaft diameter 3/8" (9.525 mm), outer diameter 5/8" (15.875 mm		 Product: Collets Description: Collet plastic (PEEK) insulated for hollow shaft, shaft diameter 15 mm, outer diame- 	SPZ-58Z-015-P	2076233		
Product: Collets Description: Collet plastic (PEEK) insulated for hollow shaft, shaft diameter 12 mm, outer diameter 5/8" (15.875 mm) Product segment: Shaft adaptation Product: Collets Description: Collet plastic (PEEK) insulated for hollow shaft, shaft diameter 10 mm, outer diameter 5/8" (15.875 mm) Product segment: Shaft adaptation Product: Collets Description: Collet plastic (PEEK) insulated for hollow shaft, shaft diameter 8 mm, outer diameter 5/8" (15.875 mm) Product segment: Shaft adaptation Product: Collets Description: Collet plastic (PEEK) insulated for hollow shaft, shaft diameter 6 mm, outer diameter 5/8" (15.875 mm) Product segment: Shaft adaptation Product: Collets Description: Collet plastic (PEEK) insulated for hollow shaft, shaft diameter 1/2" (12.7 mm), outer diameter 5/8" (15.875 mm) Product: Collets Description: Collet plastic (PEEK) insulated for hollow shaft, shaft diameter 1/2" (12.7 mm), outer diameter 5/8" (15.875 mm) Product: Collets Description: Collet plastic (PEEK) insulated for hollow shaft, shaft diameter 3/8" (9.525 mm), outer diameter 5/8" (15.875 mm) Product: Collets Description: Collet plastic (PEEK) insulated for hollow shaft, shaft diameter 3/8" (9.525 mm), outer diameter 5/8" (15.875 mm) Product: Collets Description: Collet metal for hollow shaft, shaft diameter 1/2" (12.7 mm), outer diameter 5/8" (15.875 mm) Product: Collets Description: Collet metal for hollow shaft, shaft diameter 3/8" (9.525 mm), outer diameter 5/8" (15.875 mm) Product segment: Shaft adaptation Product: Collets Description: Collet metal for hollow shaft, shaft diameter 3/8" (9.525 mm), outer diameter 5/8" (15.875 mm) Product segment: Shaft adaptation Product: Collets Description: Collet metal for hollow shaft, shaft diameter 3/8" (9.525 mm), outer diameter 5/8" (15.875 mm)		Product: Collets Description: Collet plastic (PEEK) insulated for hollow shaft, shaft diameter 14 mm, outer diame-	SPZ-58Z-014-P	2076232		
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 Product: Collets Description: Collet plastic (PEEK) insulated for hollow shaft, shaft diameter 1/2" (12.7 mm), outer diameter 5/8" (15.875 mm) Product segment: Shaft adaptation Product: Collets Description: Collet plastic (PEEK) insulated for hollow shaft, shaft diameter 3/8" (9.525 mm), outer diameter 5/8" (15.875 mm) Product segment: Shaft adaptation Product: Collets Description: Collet metal for hollow shaft, shaft diameter 1/2" (12.7 mm), outer diameter 5/8" (15.875 mm) Product segment: Shaft adaptation Product: Collets Description: Collet metal for hollow shaft, shaft diameter 3/8" (9.525 mm), outer diameter 5/8" (15.875 mm) Product: Saft adaptation Product: Collets Description: Collet metal for hollow shaft, shaft diameter 3/8" (9.525 mm), outer diameter 5/8" (15.875 mm) Product segment: Shaft adaptation Product segment: Shaft adaptation Product segment: Shaft adaptation 		 Product: Collets Description: Collet plastic (PEEK) insulated for hollow shaft, shaft diameter 6 mm, outer diameter 	SPZ-58Z-006-P	2076228		
Product: Collets Description: Collet plastic (PEEK) insulated for hollow shaft, shaft diameter 3/8" (9.525 mm), outer diameter 5/8" (15.875 mm) Product: Collets Product: Collets Description: Collet metal for hollow shaft, shaft diameter 1/2" (12.7 mm), outer diameter 5/8" (15.875 mm) Product segment: Shaft adaptation Product: Collets Description: Collet metal for hollow shaft, shaft diameter 3/8" (9.525 mm), outer diameter 5/8" (15.875 mm) Product: Collets Description: Collet metal for hollow shaft, shaft diameter 3/8" (9.525 mm), outer diameter 5/8" (15.875 mm) Product segment: Shaft adaptation Product segment: Shaft adaptation SPZ-58Z-015-M 2076		 Product: Collets Description: Collet plastic (PEEK) insulated for hollow shaft, shaft diameter 1/2" (12.7 mm), out- 	SPZ-58Z-12Z-P	2076227		
Product: Collets Description: Collet metal for hollow shaft, shaft diameter 1/2" (12.7 mm), outer diameter 5/8" (15.875 mm) Product segment: Shaft adaptation Product: Collets Description: Collet metal for hollow shaft, shaft diameter 3/8" (9.525 mm), outer diameter 5/8" (15.875 mm) Product segment: Shaft adaptation SPZ-58Z-015-M 2076		 Product: Collets Description: Collet plastic (PEEK) insulated for hollow shaft, shaft diameter 3/8" (9.525 mm), 	SPZ-58Z-38Z-P	2076226		
 Product: Collets Description: Collet metal for hollow shaft, shaft diameter 3/8" (9.525 mm), outer diameter 5/8" (15.875 mm) Product segment: Shaft adaptation SPZ-58Z-015-M 	To	 Product: Collets Description: Collet metal for hollow shaft, shaft diameter 1/2" (12.7 mm), outer diameter 	SPZ-58Z-12Z-M	2076225		
	To	 Product: Collets Description: Collet metal for hollow shaft, shaft diameter 3/8" (9.525 mm), outer diameter 	SPZ-58Z-38Z-M	2076224		
Description: Collet metal for hollow shaft, shaft diameter 15 mm, outer diameter 5/8" (15.875 mm)		Product: Collets Description: Collet metal for hollow shaft, shaft diameter 15 mm, outer diameter	SPZ-58Z-015-M	2076223		
 Product segment: Shaft adaptation Product: Collets Description: Collet metal for hollow shaft, shaft diameter 14 mm, outer diameter 5/8" (15.875 mm) 		 Product: Collets Description: Collet metal for hollow shaft, shaft diameter 14 mm, outer diameter 	SPZ-58Z-014-M	2076222		
 Product segment: Shaft adaptation Product: Collets Description: Collet metal for hollow shaft, shaft diameter 12 mm, outer diameter 5/8" (15.875 mm) 		 Product: Collets Description: Collet metal for hollow shaft, shaft diameter 12 mm, outer diameter 	SPZ-58Z-012-M	2076221		
Product segment: Shaft adaptation Product: Collets Description: Collet metal for hollow shaft, shaft diameter 10 mm, outer diameter 5/8" (15.875 mm)	To	Product: Collets Description: Collet metal for hollow shaft, shaft diameter 10 mm, outer diameter	SPZ-58Z-010-M	2076220		
 Product segment: Shaft adaptation Product: Collets Description: Collet metal for hollow shaft, shaft diameter 8 mm, outer diameter 5/8" (15.875 mm) 		Product: Collets Description: Collet metal for hollow shaft, shaft diameter 8 mm, outer diameter	SPZ-58Z-008-M	2076219		

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