

VFS60B-T8EJ01024

VFS60

MOTOR FEEDBACK SYSTEMS ROTARY INCREMENTAL



Ordering information

Туре	Part no.
VFS60B-T8EJ01024	1036116

Other models and accessories → www.sick.com/VFS60

Illustration may differ



Detailed technical data

Performance

Number of lines per revolution	1,024
Reference signal, number	1
Reference signal, position	90° electric, logically gated with A and B
Measuring step deviation	± 0.01°

Interfaces

Communication interface	Incremental
Communication Interface detail	HTL

Electrical data

Connection type	Cable, 8-wire, radial, 0.5 m ¹⁾
Supply voltage range	10 V 32 V
Output current	40 mA ²⁾
Maximum output frequency	≤ 600 kHz
Maximum load current	≤ 30 mA

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

Mechanical data

moonamoar data	
Shaft diameter	15 mm
Shaft material	Plastic
Flange type / stator coupling	Standard
Dimensions	See dimensional drawing
Weight	0.2 kg
Moment of inertia of the rotor	40 gcm ²
Operating speed	12,000 min ⁻¹ 1)
Angular acceleration	≤ 500,000 rad/s²

 $^{^{1)}}$ Self-warming 3.3 K/1,000 1/min, when applying note working temperature range.

²⁾ Without load.

Start up torque	0.8 Ncm (+20 °C)
Permissible movement of the drive element, static	± 0.5 mm radial ± 0.5 mm axial
Permissible movement of the drive element, dynamic	± 0.1 mm radial ± 0.2 mm axial
Life of ball bearings	3.0 x 10^9 revolutions

 $^{^{1)}\,\}mbox{Self-warming 3.3 K/1,000 1/min, when applying note working temperature range.$

Ambient data

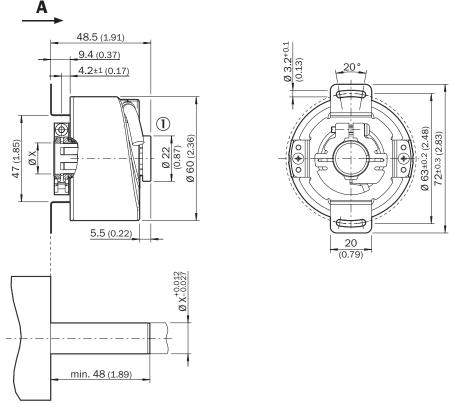
Operating temperature range	-30 °C +100 °C
Storage temperature range	-40 °C +100 °C, without package
Relative humidity/condensation	$90\ \%,$ condensation of the optical scanning not permitted
Resistance to shocks	70 g, 6 ms (according to EN 60068-2-27)
Frequency range of resistance to vibrations	30 g, 10 Hz 2,000 Hz (according to EN 60068-2-6)
EMC	According to EN 61000-6-2 and EN 61000-6-4
Enclosure rating	IP65, shaft side (according to IEC 60529) IP65, housing side, cable connection (according to IEC 60529)

Classifications

ECI@ss 5.0	27270501
ECI@ss 5.1.4	27270501
ECI@ss 6.0	27270590
ECI@ss 6.2	27270590
ECI@ss 7.0	27270501
ECI@ss 8.0	27270501
ECI@ss 8.1	27270501
ECI@ss 9.0	27270501
ETIM 5.0	EC001486
ETIM 6.0	EC001486
UNSPSC 16.0901	41112113
UNDI 30 10.0301	71112113

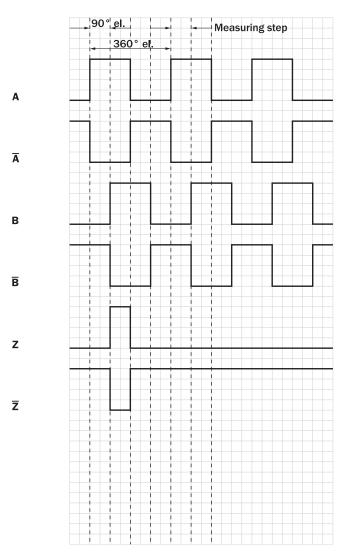
Dimensional drawing (Dimensions in mm (inch))

Through hollow shaft, plastic hollow shaft clamping, cable connection



General tolerances according to DIN ISO 2768-mk

Diagrams



Recommended accessories

Other models and accessories → www.sick.com/VFS60

	Brief description	Туре	Part no.
Flanges			
	One-sided stator coupling, slot, slot radius 33 mm to 48.5 mm, slot width 5.1 mm	BEF-DS01DFS/VFS	2047428
	One-sided stator coupling, slot, slot radius 32.25 mm to 141.75 mm, slot width 5.1 mm	BEF-DS02DFS/VFS	2047430
a ()	One-sided stator coupling, slot, slot radius 33 mm to 211.9 mm, slot width 5.1 mm	BEF-DS03DFS/VFS	2047431

	Brief description	Туре	Part no.
Plug connecto	ors and cables		
<u></u>	Head A: cable Head B: Flying leads Cable: SSI, PUR, halogen-free, shielded	LTG-2308-MWENC	6027529
\	Head A: cable Head B: Flying leads Cable: SSI, PUR, shielded	LTG-2411-MW	6027530
11 11	Head A: cable Head B: Flying leads Cable: SSI, PUR, halogen-free, shielded	LTG-2512-MW	6027531
		LTG-2612-MW	6028516
THE .	Head A: female connector, JST, 8-pin, straight Head B: Flying leads Cable: Incremental, PUR, halogen-free, shielded, 3 m	DOL-0J08-G03MAA3	2046875
	Head A: female connector, JST, 8-pin, straight Head B: Flying leads Cable: Incremental, SSI, PUR, halogen-free, shielded, 5 m	DOL-0J08-G05MAA3	2046876
	Head A: female connector, JST, 8-pin, straight Head B: Flying leads Cable: Incremental, SSI, PUR, halogen-free, shielded, 0.5 m	DOL-0J08-G0M5AA3	2046873
	Head A: female connector, JST, 8-pin, straight Head B: Flying leads Cable: Incremental, SSI, PUR, halogen-free, shielded, 10 m	DOL-0J08-G10MAA3	2046877
	Head A: female connector, JST, 8-pin, straight Head B: Flying leads Cable: Incremental, PUR, halogen-free, shielded, 1.5 m	DOL-0J08-G1M5AA3	2046874
->	Head A: female connector, M23, 12-pin, straight Head B: Flying leads Cable: Incremental, PUR, shielded, 2 m	DOL-2312-G02MLA3	2030682
-	Head A: female connector, M23, 12-pin, straight Head B: Flying leads Cable: Incremental, PUR, halogen-free, shielded, 3 m	DOL-2312- G03MMA3	2029213
	Head A: female connector, M23, 12-pin, straight Head B: Flying leads Cable: Incremental, PUR, halogen-free, shielded, 5 m	DOL-2312- G05MMA3	2029214
~	Head A: female connector, M23, 12-pin, straight Head B: Flying leads Cable: Incremental, PUR, shielded, 7 m	DOL-2312-G07MLA3	2030685
	Head A: female connector, M23, 12-pin, straight Head B: Flying leads Cable: Incremental, PUR, shielded, 10 m	DOL-2312-G10MLA3	2030688
->	Head A: female connector, M23, 12-pin, straight Head B: Flying leads Cable: Incremental, PUR, halogen-free, shielded, 10 m	DOL-2312- G10MMA3	2029215
~	Head A: female connector, M23, 12-pin, straight Head B: Flying leads Cable: Incremental, PUR, shielded, 15 m	DOL-2312-G15MLA3	2030692
-	Head A: female connector, M23, 12-pin, straight Head B: Flying leads Cable: Incremental, PUR, halogen-free, shielded, 1.5 m	DOL-2312- G1M5MA3	2029212
~	Head A: female connector, M23, 12-pin, straight Head B: Flying leads Cable: Incremental, PUR, shielded, 20 m	DOL-2312-G20MLA3	2030695

Head A: female connector, M23, 12-pin, straight Head B: Flying leads Cable: Incremental, PUR, halogen-free, shielded, 20 m Head A: female connector, M23, 12-pin, straight DOL-2312-G25			
Head A: female connector, M23, 12-pin, straight D0L-2312-G25			
Head B: Flying leads Cable: Incremental, PUR, shielded, 25 m	5MLA3 2030699		
Head A: female connector, M23, 12-pin, straight Head B: Flying leads Cable: Incremental, PUR, shielded, 30 m	DMLA3 2030702		
Head A: female connector, M23, 12-pin, straight Head B: Flying leads Cable: Incremental, PUR, halogen-free, shielded, 30 m			
Head A: male connector, M12, 5-pin, angled, B-coded Head B: Flying leads Cable: PROFIBUS DP, twisted pair, PUR, halogen-free, shielded, 5 m	95MQ 6041426		
Head A: male connector, M12, 5-pin, angled, B-coded Head B: Flying leads Cable: PROFIBUS DP, twisted pair, PUR, halogen-free, shielded, 10 m	OMQ 6041427		
Head A: female connector, JST, 8-pin, straight Head B: male connector, M23, 17-pin, straight Cable: Incremental, unshielded, 1 m	1MJB7 2071332		
Head A: female connector, terminal box, 8-pin, straight Head B: male connector, M23, 17-pin, straight Cable: Incremental, unshielded, 1 m	1MJC7 2071331		
Head A: female connector, JST, 8-pin, straight Head B: male connector, M23, 12-pin, straight Cable: Incremental, PUR, halogen-free, shielded, 1 m	.MAA3 2061622		
Head A: female connector, JST, 8-pin, straight Head B: male connector, M23, 12-pin, straight Cable: Incremental, PUR, halogen-free, shielded, 2 m	2061504		
Head A: female connector, JST, 8-pin, straight Head B: male connector, M23, 12-pin, straight Cable: Incremental, PUR, halogen-free, shielded, 0.35 m	35AA3 2061621		
Head A: female connector, M23, 12-pin, straight Head B: - Cable: HIPERFACE®, SSI, Incremental, shielded	e-G 6027538		
Head A: female connector, M23, 12-pin, angled Head B: - Cable: HIPERFACE®, SSI, Incremental, shielded	VO1 2072580		
Head A: male connector, M23, 12-pin, straight Head B: - Cable: HIPERFACE®, SSI, Incremental, RS-422, shielded	-G 6027537		
Programming and configuration tools			
SVip® LAN programming tool for all motor feedback systems PGT-11-S LA	AN 1057324		
SVip® WLAN programming tool for all motor feedback systems PGT-11-S WL	LAN 1067474		

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