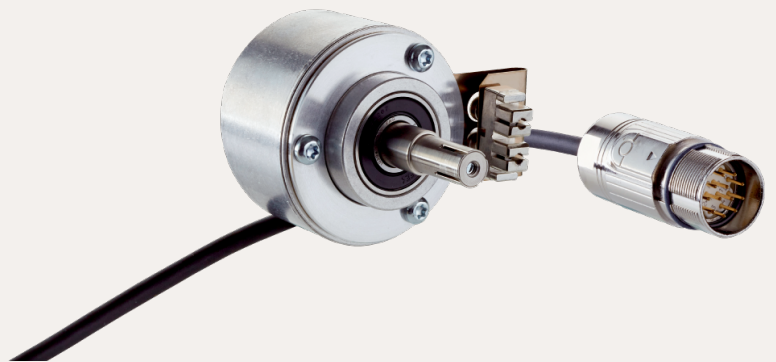




DATA SHEET

VFS60A-SZPZ0-S01

VFS60
Motor feedback systems

SICK Sensor Intelligence



Illustration may differ

MOTOR FEEDBACK SYSTEMS

VFS60A-SZPZO-S01

ORDERING INFORMATION

Type	part no.
VFS60A-SZPZO-S01	1054627

Further device versions and accessories at www.sick.com/VFS60

DETAILED TECHNICAL DATA

FEATURES

Special device	✓
Specialty	Cable outlet 1m with intercontec extension speedtec - ready (AKUA 020 MS 06 20 0490 000) Customer-specific type label and stator coupling Customer-specific pin assignment Customized expanding shaft Ø 10 mm, short

PERFORMANCE

Number of lines per revolution	512 ¹⁾
Reference signal, number	1
Reference signal, position	90° electric, logically gated with A and B
Measuring step deviation	± 0.01°

¹⁾ Configuration ex works.

INTERFACES

Communication interface	Incremental
Initialization time	1,000 ms
Power consumption	≤ 0.7 W (without load)

ELECTRONICS

Connection type	1 m
Supply voltage	4.5 V ... 32 V
Power consumption	≤ 0.7 W (without load)
Maximum output frequency	≤ 820 kHz
Maximum load current	≤ 30 mA

MECHANICS

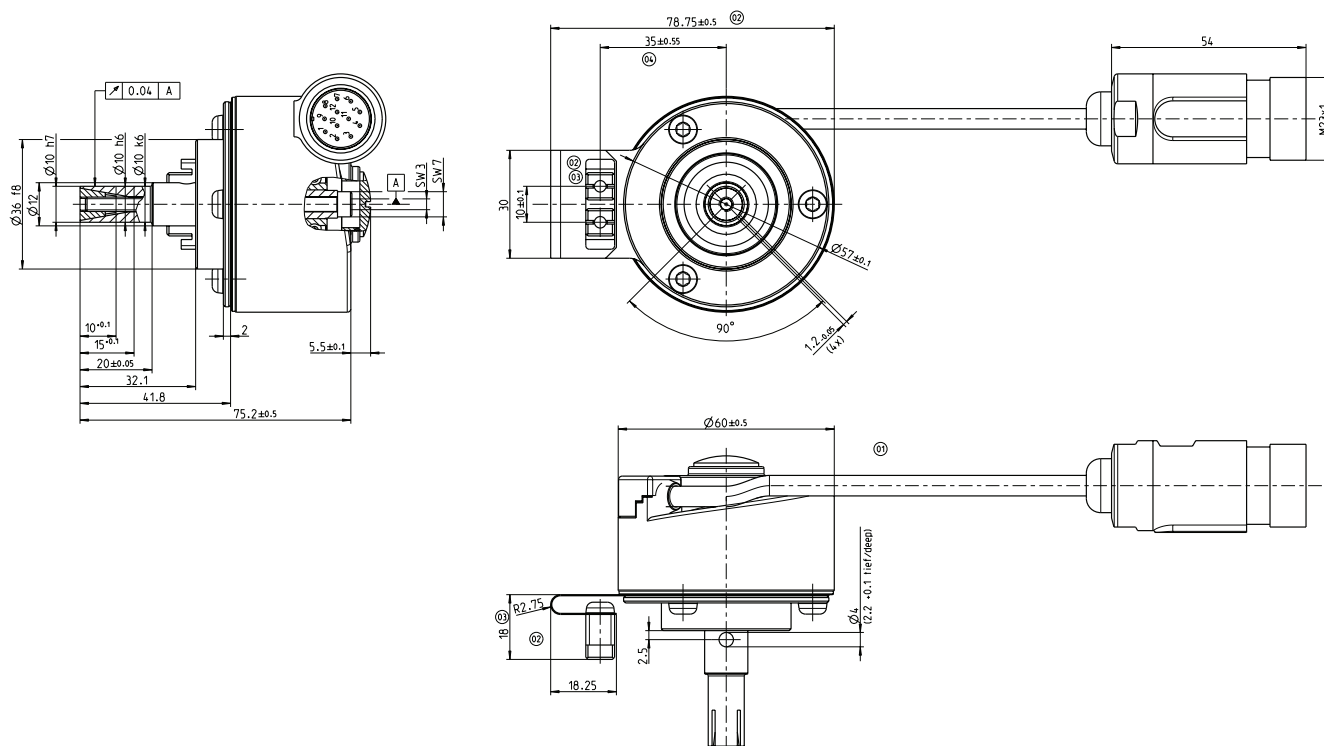
Shaft version	Solid shaft
Shaft diameter	10 mm
Shaft material	Metal
Dimensions	See dimensional drawing
Weight	+ 0.2 kg
Moment of inertia of the rotor	40 gcm ²
Operating speed	6,000 min ⁻¹ ¹⁾
Angular acceleration	≤ 500,000 rad/s ²
Operating torque	0.6 Ncm (+20 °C)
Start up torque	+ 0.8 Ncm (+20 °C)
Permissible movement static	± 0.3 mm, radial ± 0.5 mm, axial
Permissible movement dynamic	± 0.1 mm, radial ± 0.01 mm, axial
Life of ball bearings	3.0 x 10 ⁹ revolutions

¹⁾ Allow for self-heating of 3.3 K per 1,000 rpm when designing the operating 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 not permitted
Resistance to shocks	100 g, 6 ms (according to EN 60068-2-27)
Frequency range of resistance to vibrations	30 g, 10 Hz ... 2,000 Hz (EN 60068-2-6)
EMC	According to EN 61000-6-2 and EN 61000-6-4
Enclosure rating	IP65 (IEC 60529)

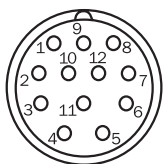
DIMENSIONAL DRAWING



Dimensions in mm (inch)

ANSCHLUSSBELEGUNG

PIN	Signal TTL, HTL	Colour of wires	Explanation
1	Z	lilac	signal line
2	Z ₋	yellow	signal line
3	A	white	signal line
4	A ₋	brown	signal line
5	B	pink	signal line
6	B ₋	black	signal line
7	N. C.	N. C.	N. C.
8	N. C.	N. C.	N. C.
9	N. C.	N. C.	N. C.
10	N. C.	N. C.	N. C.
11	GND	blue	Ground connection of the encoder
12	+U _S	red	supply voltage ¹⁾
Steckergehäuse	screen	screen	Screen on the encoder side connected to the housing. On the control side connected to earth.



View of the plug- in face

¹⁾ Potential free to the housing

N. C. = Not connected

TYPE LABEL

SICK
Motorfeedback
VFS60A-SZPZ0-S01
Ident-Nr. 1054627
cn -

lines
prog

Driver
prog

VDC
4 5-32V

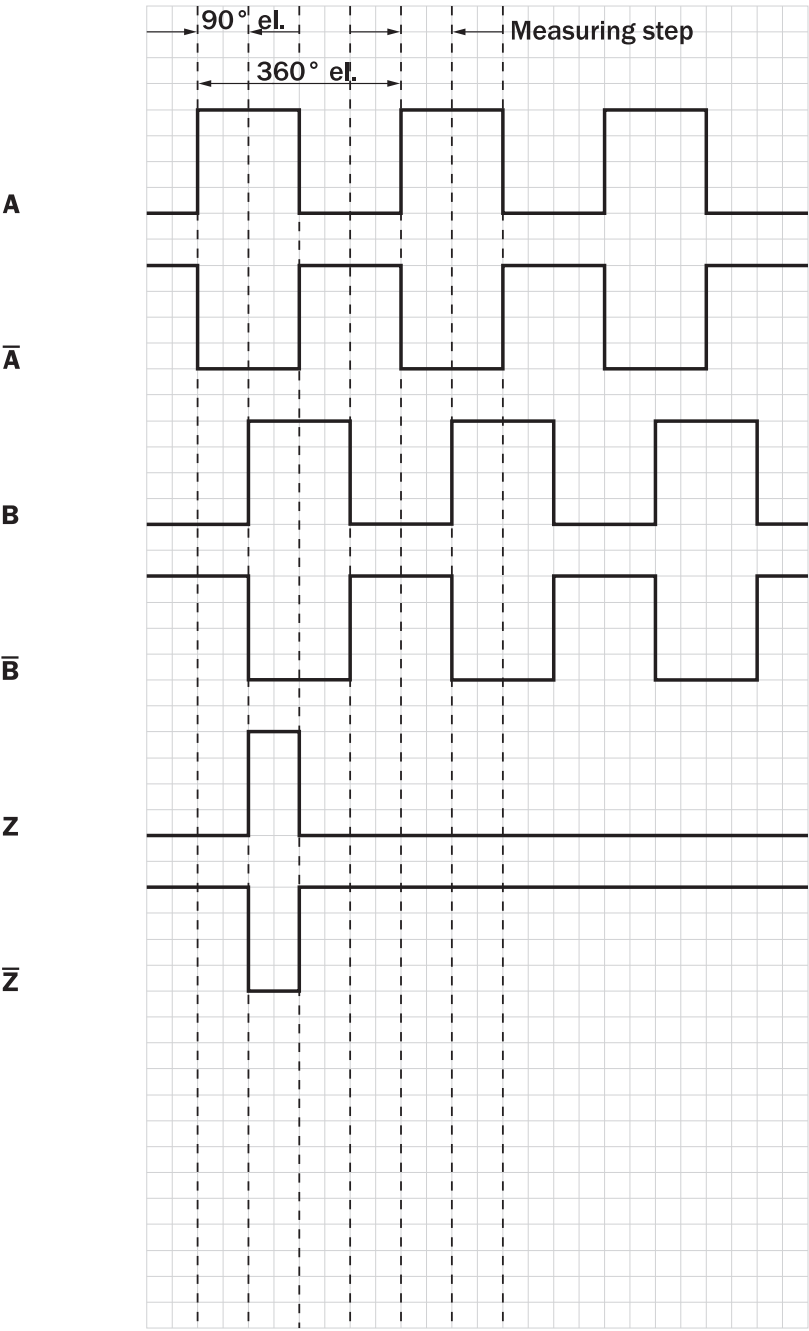


Made in Germany

SEW
EURODRIVE
TYPE
XS7C
SEW Art.-Nr.
19002092



DIAGRAMS



Further information as well as suitable accessories, example applications and downloads such as CAD dimensional models, operating instructions and software can be found at www.sick.com/1054627



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SICK AT A GLANCE

SICK is a leading global technology company for intelligent sensors and integrated solutions in industrial automation. Our technologies set benchmarks, making your industrial processes more efficient, safer and more sustainable – both in logistics and manufacturing operations.

SICK combines sensor intelligence with industry expertise and certified consulting services. We provide the ideal foundation for scalable as well as tailor-made automation solutions and create added value along the entire value chain. Our close partnerships with our customers are more than just a promise: Together, we optimize productivity, improve quality, protect health and safety, and help build a sustainable future. All with empathy and trust.

Since 1946, we have been developing innovative technologies with passion and a pioneering spirit. With a global network in around 40 countries, SICK has a global presence and is always close by. The company's headquarters are located in Waldkirch near Freiburg, Germany. Our customers benefit from our understanding of both local and global requirements, which enables us to deliver tailor-made solutions

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