Motor feedback systems rotary HIPERFACE® SRS/SRM50

SRM50-HUA0-K21







 Model Name
 > SRM50-HUA0-K21

 Part No.
 > 7127311



Illustration may diffe

At a glance

- · Motor feedback systems for the top performance range
- 1,024 sine/ cosine periods per revolution
- Absolute position with a resolution of 32,768 increments per revolution and 4,096 revolutions with the multiturn system
- HIPERFACE® interface: Programming of the position value and electronic type label
- · Insert shaft or tapered shaft with various torque supports
- Integrated version, mounted version or stand-alone design
- Certified according to SIL2/PL d (only valid for SRS50S/SRM50S...)
- · Conforms to RoHs

Your benefits

- Motor feedback system with HIPERFACE® interface
- High shock/vibration resistance thanks to built-in metal code disk
- Consistent motor design due to identical size of single and multiturn design
- To use of a motor feedback system certified to SIL2/PL d makes it easier to have your system certified.
- · Very smooth running thanks to maximum ball bearing distance



Performance

I enormance	
Number of sine/cosine periods per revolution:	1,024
Number of the absolute ascertainable revolutions:	4,096 (Multiturn)
Total number of steps:	134,217,728
Measuring step:	0.3 angular seconds at interpolation of the sine/cosine signals with e.g. Bit
Differential non-linearity:	± 7 angular seconds (Non-linearity within a sine/cosine period)
Operating speed:	6,000 /min, up to which the absolute position can be reliably produced
Available memory area:	128 Byte, 128 Byte (E2PROM 512)
Available memory area: Integral non-linearity typ.:	128 Byte, 128 Byte (E2PROM 512) ± 45 angular seconds (Error limits for evaluating sine/cosine period)
5	
5	
Integral non-linearity typ.:	
Integral non-linearity typ.: Mechanical data	± 45 angular seconds (Error limits for evaluating sine/cosine period)
Integral non-linearity typ.: Mechanical data Shaft diameter:	± 45 angular seconds (Error limits for evaluating sine/cosine period) 9.5 mm
Integral non-linearity typ.: Mechanical data Shaft diameter: Flange type/stator coupling:	 ± 45 angular seconds (Error limits for evaluating sine/cosine period) 9.5 mm Square flange
Integral non-linearity typ.: Mechanical data Shaft diameter: Flange type/stator coupling: Dimensions:	 ± 45 angular seconds (Error limits for evaluating sine/cosine period) 9.5 mm Square flange See dimensional drawing

Type of code for the absolute value:	Pipan/	
Interfaces		
¹⁾ Without load		
Operating power consumption (no load):	80 mA ¹⁾	
Output frequency for sine/cosine signals:	0 kHz 200 kHz	
Recommended supply voltage:	8 V DC	
Operating voltage range/supply Voltage:	7 V DC 12 V DC	
Electrical interface:	HIPERFACE	
Electrical data		
GEWICHT01:	0.48 kg	
Permissible Load capacity of shaft:	155 N (radial), 88 N (axial)	
Shaft version:	Solid shaft with flat	
Electrical connection:	Connector MS/10 10-pin	
Life of ball bearings:	3.6 x 10 [^] 9 revolutions	
Start up torque:	1.5 Ncm	
Operating torque:	1 Ncm	

Binary
Increasing, for clockwise shaft rotation, looking in direction "A" (see dimensional drawing)
Parameter channel RS 485: digital, Process data channel SIN, REFSIN, COS, REFCOS: analog, differential
0 °C +75 °C
-40 °C +85 °C, without package
90 %, Condensation not permitted
100 g/10 ms/according to EN 60068-2-27
20 g/10 Hz/2,000 Hz/according to EN 60068-2-6
(according to EN 61000-6-2 and EN 61000-6-3) ¹⁾

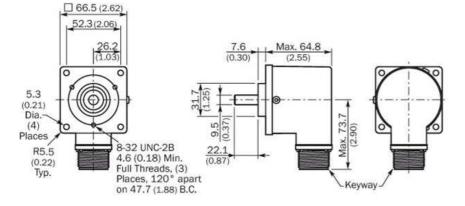
Enclosure rating:

1) The EMC according to the standards quoted is achieved when the motor feedback system is mounted in an electrically conductive housing, which is connected to the

IP 66 (according to IEC 60529), with mating connector inserted

central earthing point of the motor controller via a cable screen. This is also where the GND (0 V) connection of the power supply voltage is linked to earth. Users must perform their own tests when other screen designs are used.

Dimensional drawing



Australia

Phone +61 3 9457 0600 1800 33 48 02 - tollfree E-Mail sales@sick.com.au

Belgium/Luxembourg Phone +32 (0)2 466 55 66 E-Mail info@sick.be

Brasil Phone +55 11 3215-4900 E-Mail marketing@sick.com.br

Canada

Phone +1 905 771 14 44 E-Mail information@sick.com

Česká republika Phone +420 2 57 91 18 50 E-Mail sick@sick.cz

China

Phone +86 4000 121 000 E-Mail info.china@sick.net.cn Phone +852-2153 6300 E-Mail ghk@sick.com.hk

Danmark Phone +45 45 82 64 00 E-Mail sick@sick.dk

Deutschland Phone +49 211 5301-301 E-Mail info@sick.de

España Phone +34 93 480 31 00 E-Mail info@sick.es

France Phone +33 1 64 62 35 00 E-Mail info@sick.fr

Great Britain Phone +44 (0)1727 831121 E-Mail info@sick.co.uk

India Phone +91-22-4033 8333 E-Mail info@sick-india.com

Israel Phone +972-4-6881000 E-Mail info@sick-sensors.com Italia

Phone +39 02 27 43 41 E-Mail info@sick.it

Japan Phone +81 (0)3 5309 2112 E-Mail support@sick.jp

Magyarország Phone +36 1 371 2680 E-Mail office@sick.hu

Nederland Phone +31 (0)30 229 25 44 E-Mail info@sick.nl E-Mail sick@sick.no Österreich Phone +43 (0)22 36 62 28 8-0 E-Mail office@sick.at Polska Phone +48 22 837 40 50

Phone +47 67 81 50 00

Norge

E-Mail info@sick.pl România

Phone +40 356 171 120 E-Mail office@sick.ro Russia

Phone +7-495-775-05-30 E-Mail info@sick.ru

Schweiz Phone +41 41 619 29 39 E-Mail contact@sick.ch

Singapore Phone +65 6744 3732 E-Mail sales.gsg@sick.com

Slovenija Phone +386 (0)1-47 69 990 E-Mail office@sick.si

South Africa Phone +27 11 472 3733

E-Mail info@sickautomation.co.za
South Korea

Phone +82 2 786 6321/4 E-Mail info@sickkorea.net

Suomi Phone +358-9-25 15 800 E-Mail sick@sick.fi

Sverige Phone +46 10 110 10 00 E-Mail info@sick.se

Taiwan Phone +886 2 2375-6288 E-Mail sales@sick.com.tw

Türkiye Phone +90 (216) 528 50 00 E-Mail info@sick.com.tr

United Arab Emirates Phone +971 (0) 4 88 65 878 E-Mail info@sick.ae

USA/México Phone +1(952) 941-6780 1 (800) 325-7425 - tollfree E-Mail info@sickusa.com

More representatives and agencies at www.sick.com

