

PRF08-E1AM0240







Wire draw encoders **HighLine**

Model Name > PRF08-E1AM0240

Part No. > 1034335



At a glance

- · Incremental wire draw encoders
- Modular measuring system with a wide selection of interfaces/measuring lengths
- Measuring lengths: 2 m ... 50 m
- Very rugged system (dirt wiper, integrated brushes), highly shock and vibration resistant
- · High-quality winding mechanism and wire input
- Interfaces: TTL/HTL
- · High enclosure rating
- · Highly resistant to shock and vibrations

Your benefits

- · Reliable solution in harsh environments
- · Long service life due to rugged industrial housing
- · Quick and easy installation without the need for precise linear guidance
- · Low integration and maintenance costs
- · Customization option reduces inventory costs





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Performance

0 m ... 2 m Measuring range: Repeatability: ± 0.1 % Linearity: ± 0.05 % Hysteresis: Resolution: 0.1 mm

1) 2) 3) Value refers to wire draw mechanism

Mechanical data

Mass (including encoder): 1.6 kg Measuring wire diameter: 1.35 mm

Housing material, wire draw mechanism: Aluminum (anodised), die-cast zinc

Drum extent: 200 mm 6 N ... 14 N ¹⁾ Spring return force: 1 million cycles Life of wire draw mechanism:

Actual length of cable extension: 2.2 m Wire acceleration: 40 m/s² Operating speed: 4 m/s

Mounted encoder: DFS60

MRA-F080-102D2 Mounted mechanic:

Part number mechanic: 6028625 Part number encoder: 1056866

Electrical data

Maximum output frequency: 820 kHz

Electronically, gated with A and B Reference signal, position: Reference signal, number: 1, electronically, gated with A and B

Maximum load current:

 \leq 32 ms, with mechanical zero pulse width \leq 30 ms $^{1)}$ 2) 300 a $^{3)}$ 4) Initialization time::

MTTFd: mean time to dangerous failure::

1) 2) Valid positional data can be read once this time has elapsed. 3) 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. 4) The value applies to the mounted encoder

Interfaces

Electrical interface: 10 V ... 32 V, HTL/Push pull Connection type: Connector M23, 12-pin, radial

Ambient data

EMC: (according to EN 61000-6-2 and EN 61000-6-3)

Enclosure rating encoder: **IP 67** Enclosure rating mechanic: IP 50

Resistance to shocks: 60 g, 6 ms (according to EN 60068-2-27)

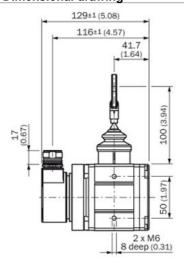
20 g, 10 Hz ... 2,000 Hz (according to EN 60068-2-6) Resistance to vibration:

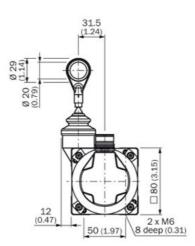
-30 °C ... 70 °C Working temperature range:

Relative humidity/Condensation: 90 % (condensation of the optical scanning not permitted)

¹⁾ These values were measred at an ambient temperature of 25 °C. There may be variations at other temperatures.

Dimensional drawing





Australia

Phone +61 3 9457 0600 1800 334 802 - 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 sac@sick.com.br

Canada

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

Ceská 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 kundenservice@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 +972-4-6801000 E-Mail info@sick-sensors.com

Italia

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

Japan

Phone +81 (0)3 3358 1341 E-Mail support@sick.jp

Magyarország

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

Nederlands

Phone +31 (0)30 229 25 44

E-Mail info@sick.nl

Norge

Phone +47 67 81 50 00 E-Mail austefjord@sick.no

Österreich

Phone +43 (0)22 36 62 28 8-0

E-Mail office@sick.at

Polska

Phone +48 22 837 40 50

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 admin@sicksgp.com.sg

Sloveniia

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 F-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 8865 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

