

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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DFS25A-A2BAE000720

DFS2x

INCREMENTAL ENCODERS





Ordering information

Туре	Part no.
DFS25A-A2BAE000720	1073330

Other models and accessories → www.sick.com/DFS2x

Illustration may differ



Detailed technical data

Performance

Pulses per revolution	720
Measuring step	90° electronically/ppr
Measuring step deviation	± 0.008°
Error limits	± 0.03°
Initialization time	40 ms

Electrical data

Electrical interface	8 V 30 V, HTL/Push pull
Connection type	Male connector, radial ¹⁾
Power consumption	0.7 W (without load)
Output frequency	820 kHz
Reference signal, number	1
Reference signal, position	180°, electronically, gated with B negative
Code sequence	Counterclockwise

¹⁾ Zero set possible.

Mechanical data

Mechanical design	Solid shaft, Square flange
Shaft diameter	3/8"
Weight	0.4 kg (maximum)
Start up torque	0.5 Ncm (+20 °C)
Operating torque	0.3 Ncm (+20 °C)
Permissible shaft loading radial/axial	40 N (axial) 80 N (radial)
Operating speed	9,000 min ⁻¹
Moment of inertia of the rotor	15 gcm ²
Bearing lifetime	3.6 x 10^9 revolutions

Angular acceleration ≤ 500,000 rad/s²	
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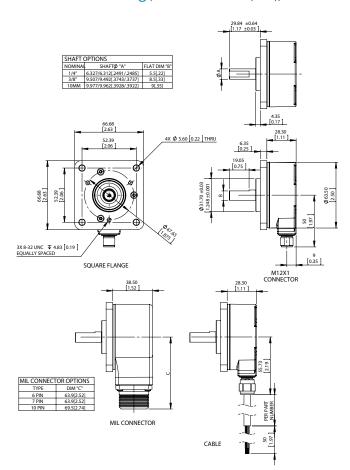
Ambient data

EMC	According to EN 61000-6-2 and EN 61000-6-3
Enclosure rating	IP65 (according to IEC 60529)
Permissible relative humidity	90 % (Condensation not permitted)
Operating temperature range	-30 °C +80 °C
Storage temperature range	-40 °C +100 °C, without package
Resistance to shocks	100 g, 11 ms (according to EN 60068-2-27)
Resistance to vibration	30 g, 10 Hz 2,000 Hz (according to EN 60068-2-6)

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

Dimensional drawing (Dimensions in mm (inch))



PIN assignment



SICK AT A GLANCE

SICK is one of the leading manufacturers of intelligent sensors and sensor solutions for industrial applications. A unique range of products and services creates the perfect basis for controlling processes securely and efficiently, protecting individuals from accidents and preventing damage to the environment.

We have extensive experience in a wide range of industries and understand their processes and requirements. With intelligent sensors, we can deliver exactly what our customers need. In application centers in Europe, Asia and North America, system solutions are tested and optimized in accordance with customer specifications. All this makes us a reliable supplier and development partner.

Comprehensive services complete our offering: SICK LifeTime Services provide support throughout the machine life cycle and ensure safety and productivity.

For us, that is "Sensor Intelligence."

WORLDWIDE PRESENCE:

Contacts and other locations www.sick.com

