



# DGS20-1F401024

DGS20

PRODUCT PORTFOLIO

**SICK**  
Sensor Intelligence.

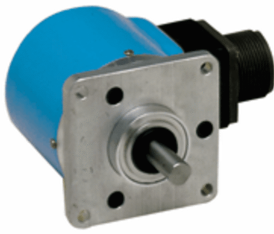


Illustration may differ



### Ordering information

| Model name     | Part no. |
|----------------|----------|
| DGS20-1F401024 | 7101106  |

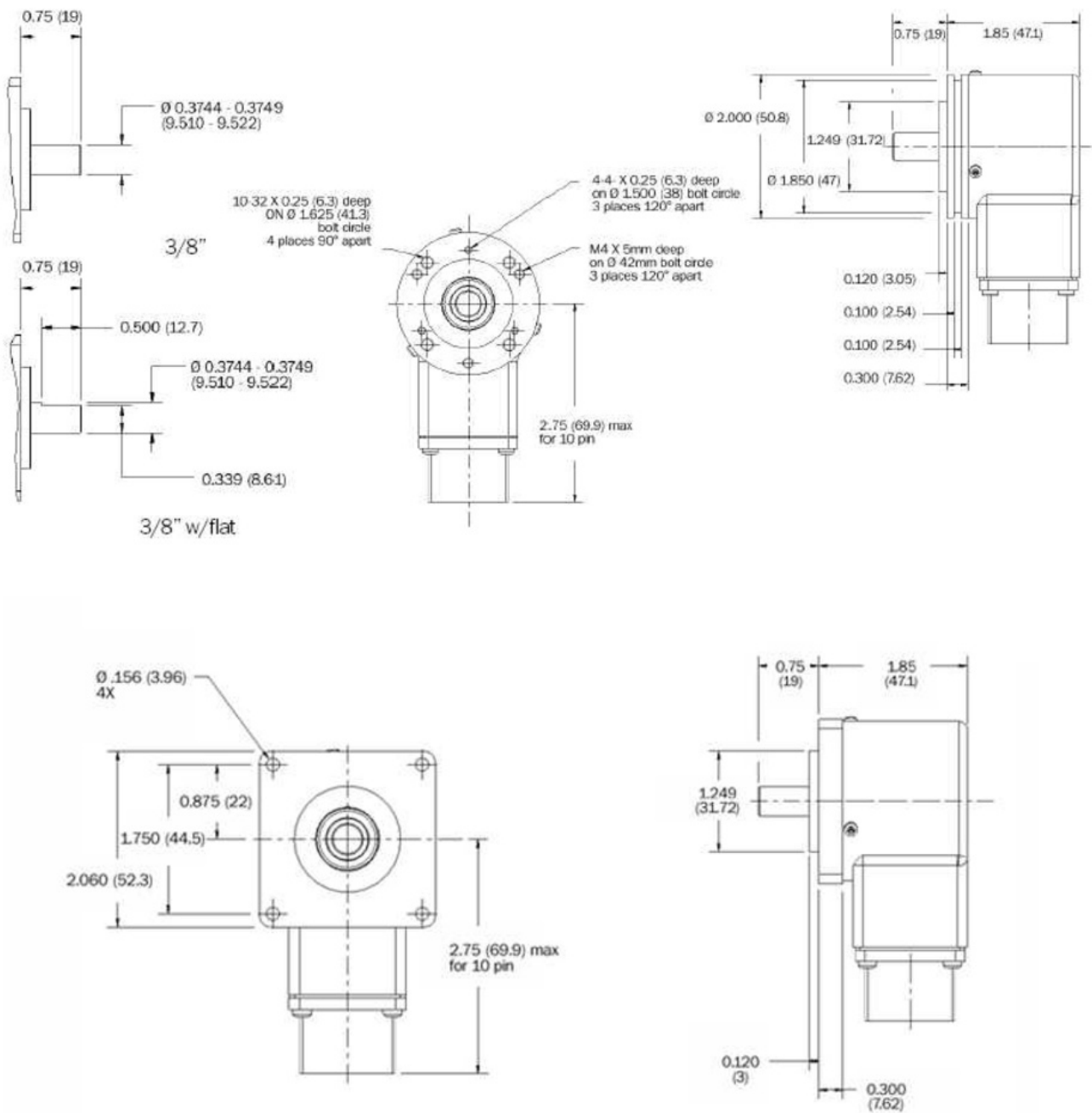
Other models and accessories → [www.sick.de/DGS20](http://www.sick.de/DGS20)

### Detailed technical data

#### Technical specifications

|  |  |
|--|--|
| Shaft diameter                           | 3/8"                                   |
| Number of lines                          | 1,024                                  |
| Interface                                | 5 V, TTL                               |
| Connection type                          | Connector, MS, 10-pin, radial          |
| Moment of inertia of the rotor           | 16.9 gcm <sup>2</sup>                  |
| Measuring step                           | 90°/number of lines                    |
| Reference signal, number                 | 1                                      |
| Reference signal, position               | Gated 180° nominal                     |
| Measuring step deviation                 | 45/Z °                                 |
| Maximum output frequency                 | ≤ 200 kHz                              |
| Max. angular acceleration                | 5 x 10 <sup>5</sup> rad/s <sup>2</sup> |
| Start up torque with shaft seal          | 3.5 Ncm                                |
| Start up torque without shaft seal       | 1.1 Ncm                                |
| Permissible shaft loading, axial         | 178 N                                  |
| Permissible shaft loading, radial        | 155 N                                  |
| Working temperature range                | 0 °C ... +70 °C                        |
| Storage temperature range                | -20 °C ... +85 °C                      |
| Permissible relative humidity            | 90%                                    |
| Resistance to shocks                     | 50/11 g/ms                             |
| Resistance to vibration                  | 5/2000 Hz @ 20 g                       |
| Protection class according to IEC 60529: | IP 66                                  |
| Supply voltage                           | DC, 4.75 V, 5.25 V                     |

Dimensional drawing (Dimensions in mm (inch))



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