

# DRS20-57K08192

DRS20

PRODUCT PORTFOLIO

**SICK**  
Sensor Intelligence.

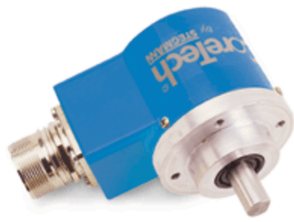


Illustration may differ



## Ordering information

Model name	Part no.
DRS20-57K08192	7101819

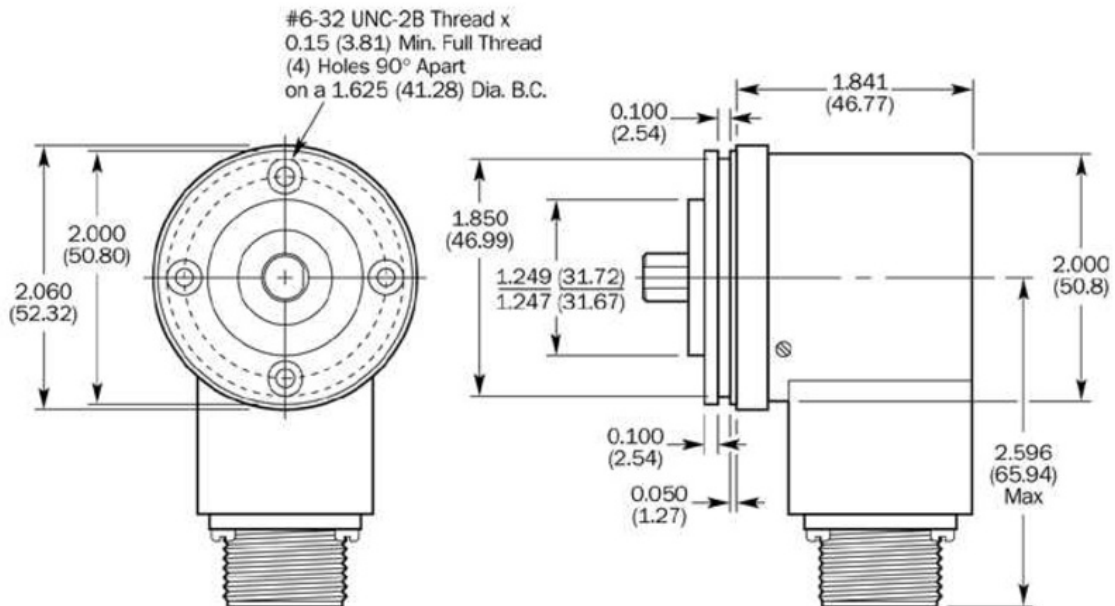
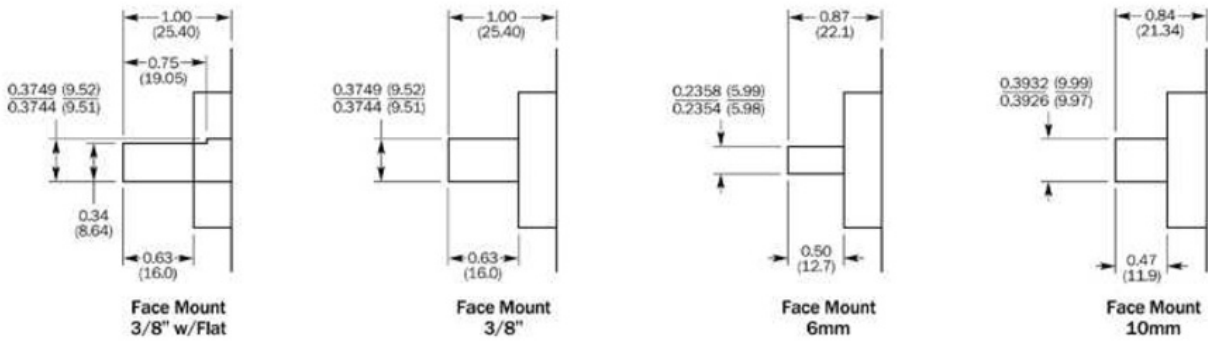
Other models and accessories → [www.sick.de/DRS20](http://www.sick.de/DRS20)

## Detailed technical data

### Technical specifications

Shaft / Flange design	Solid shaft, servo flange
Shaft diameter	3/8"
Number of lines	8,192
Interface	8 ... 24 V, HTL
Connection type	Cable, radial, 1.5 m
Moment of inertia of the rotor	54 gcm <sup>2</sup>
Measuring step	90° / number of steps
Reference signal, number	1
Reference signal, position	90° or 180°
Error limits binary number of steps	0.035°
Error limits non-binary number of steps	0.046°
Maximum output frequency	≤ 820 kHz
Maximum operating speed with shaft seal	6,000 U/min
Maximum operating speed without shaft seal	10,000 U/min
Operating torque	2.6 Ncm
Start up torque	3.4 Ncm
Permissible shaft loading, axial	20 N
Permissible shaft loading, radial	20 N
Working temperature range	-20 °C ... +85 °C
Storage temperature range	-40 °C ... +100 °C
Permissible relative humidity	90 %
Resistance to shocks	50/11 g/ms
Resistance to vibration	20/10 ... 150 g/Hz
Enclosure rating	IP 66
Supply voltage	DC, 8 V, 24 V
Operation of zero-set	≥ 100 ms
Initialisation time after power on	40 s

Dimensional drawing (Dimensions in mm (inch))



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