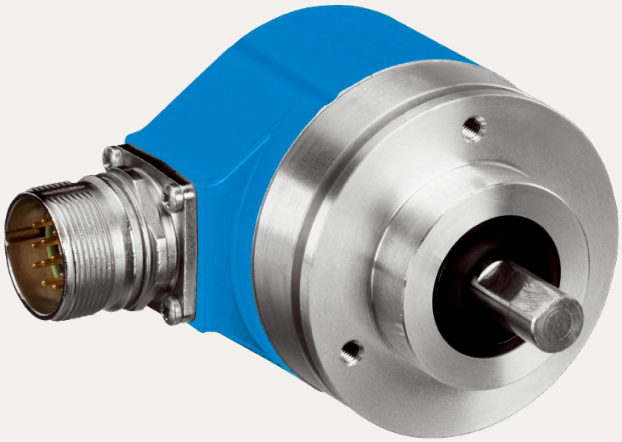
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DATA SHEET

DRS61-E4A08192

DRS61
Incremental encoders

SICK
Sensor Intelligence



Illustration may differ

INCREMENTAL ENCODERS

DRS61-E4A08192

ORDERING INFORMATION

Type	part no.
DRS61-E4A08192	1034993

Further device versions and accessories at www.sick.com/DRS61

DETAILED TECHNICAL DATA

PERFORMANCE

Pulses per revolution	8,192 [1]
Measuring step deviation at non binary number of lines	0.016°
Measuring step deviation at binary number of lines	0.005°

[1] Number of lines 8,192 factory- programmed. Please order programming tool seperately.

INTERFACES

Initialization time	40 s
Output frequency	200 Hz

ELECTRICAL DATA

Connection type	Radial
Reference signal, number	1
Reference signal, position	90°, electric, logically gated with A and B 180°, electric, logically gated with A and B

MECHANICAL DATA

Mechanical design	Solid shaft, face mount flange
Shaft length	19 mm
Weight	+ 0.3 kg (Based on devices with male connector)
Start up torque	0.4 Ncm (+20 °C)
Operating torque	0.3 Ncm (+20 °C)
Moment of inertia of the rotor	54 gcm²
Bearing lifetime	3.6 x 10^9 revolutions

AMBIENT DATA

EMC	EN 61000-6-2 EN 61000-6-3
Enclosure rating	IEC 60529
Operating temperature range	–20 °C ... +85 °C
Storage temperature range	–40 °C ... +100 °C, without package
Resistance to shocks	50 g (EN 60068-2-27)
Resistance to vibration	20 g, 10 Hz ... 2,000 Hz (EN 60068-2-6)

Further information as well as suitable accessories, example applications and downloads such as CAD dimensional models, operating instructions and software can be found at www.sick.com/1034993

SICK AG
WALDKIRCH
GERMANY
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SICK AT A GLANCE

SICK is a leading global technology company for intelligent sensors and integrated solutions in industrial automation. Our technologies set benchmarks, making your industrial processes more efficient, safer and more sustainable – both in logistics and manufacturing operations.

SICK combines sensor intelligence with industry expertise and certified consulting services. We provide the ideal foundation for scalable as well as tailor-made automation solutions and create added value along the entire value chain. Our close partnerships with our customers are more than just a promise: Together, we optimize productivity, improve quality, protect health and safety, and help build a sustainable future. All with empathy and trust.

Since 1946, we have been developing innovative technologies with passion and a pioneering spirit. With a global network in around 40 countries, SICK has a global presence and is always close by. The company's headquarters are located in Waldkirch near Freiburg, Germany. Our customers benefit from our understanding of both local and global requirements, which enables us to deliver tailor-made solutions

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