

DKV60E-22EZZOS15

MEASURING WHEEL ENCODERS



Illustration may differ

Ordering information

Туре	Part no.
DKV60E-22EZZ0S15	1138882

Other models and accessories → www.sick.com/DKV60



Detailed technical data

Features

Special device	✓
Specialty	Without spring arm ¹⁾ Cable, 8-wire, 1.5 m with Molex pin housing, 8-pin Molex pin contacts
Standard reference device	DKV60E-22EPA0200, 1115722

 $^{^{1)}\,\}mathrm{MOLEX-Housing\,part\,number:\,39012081,\,MOLEX-Pin\,part\,number:\,39000049\,(loose),\,39000048\,(chain).}$

Performance

Pulses per revolution	200
Resolution in pulses/mm	0.95
Measuring increment (resolution in mm/ pulse)	1.05
Error limits	\pm 4 mm/m, subject to the measuring wheel (wheel + surface) $^{1)}$
Initialization time	< 3 ms

¹⁾ The surface of a measuring wheel is subject to wear. This depends on contact pressure, acceleration behavior in the application, traversing speed, measurement surface, mechanical alignment of the measuring wheel, temperature, and ambient conditions. We recommend you regularly check the condition of the measuring wheel and replace as required.

Interfaces

Communication interface	Incremental
Communication Interface detail	HTL / Push pull

Electrical data

Connection type	Cable, 8-wire, with male connector, With Molex pin housing and Molex pin contacts, 8-pin, universal, $1.5\ \mathrm{m}$
Supply voltage	7 V 30 V
Load current max.	30 mA
Maximum output frequency	≤ 300 kHz
Reference signal, number	1
Reference signal, position	90°, electric, logically gated with A and B
Reverse polarity protection	-

Mechanical data

Measuring wheel circumference	210 mm
Measuring wheel surface	O ring EPDM ¹⁾
Mass	950 g
Encoder material	
Shaft	Stainless steel
Flange	Zinc cast
Housing	Zinc cast
Cable	PVC
Spring arm mechanism material	
Measuring wheel, spring arm	Aluminum
Start up torque	0.9 Ncm (at 20 °C)
Operating torque	0.6 Ncm (at 20 °C)
Operating speed	≤ 1,000 min ⁻¹
Maximum operating speed	1,500 min ⁻¹
Bearing lifetime	2 x 10^9 revolutions
Max. permissible working area for the spring (continuous operation)	± 1.5 mm

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Ambient data

EMC	According to EN 61000-6-2 and EN 61000-6-3 (class A)	
Enclosure rating	IP65	
Operating temperature range	-35 °C +60 °C	
Storage temperature range	-40 °C +70 °C, without package	

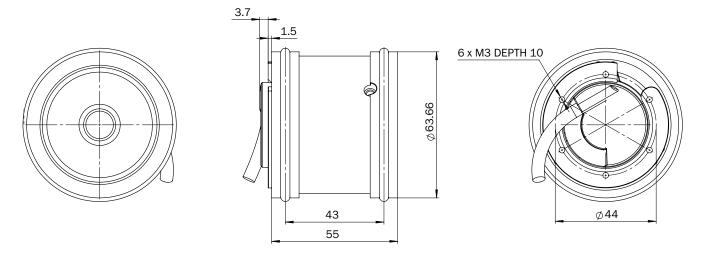
Classifications

ECLASS 5.0	27270501
ECLASS 5.1.4	27270501
ECLASS 6.0	27270590
ECLASS 6.2	27270590
ECLASS 7.0	27270501
ECLASS 8.0	27270501
ECLASS 8.1	27270501
ECLASS 9.0	27270501
ECLASS 10.0	27270790
ECLASS 11.0	27270707
ECLASS 12.0	27270504
ETIM 5.0	EC001486
ETIM 6.0	EC001486
ETIM 7.0	EC001486
ETIM 8.0	EC001486

UNSPSC 16.0901

41112113

Dimensional drawing (Dimensions in mm (inch))



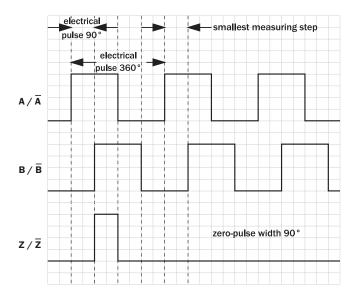
PIN assignment

Farbe der	Signal bei HTL	Erklärung	Pin
Adern			
Braun	A_	Signalleitung	1
Weiß	A	Signalleitung	2
Schw arz	B_	Signalleitung	3
Rosa	В	Signalleitung	4
Gelb	Z_	Signalleitung	5
Lila	Z	Signalleitung	6
Blau	GND	Masseanschluss des Encoders	7
Rot	+ U _s	Versorgungsspannung 1)	8
N.C.	N.C.	Schirm ²⁾	

¹⁾ Potentialfrei zum Gehäuse

²⁾ auf Kundenw unsch sind die Schirmlitze und das Schirmgeflecht bündig mit dem Kabelmantelende abgeschnitten.

Diagrams



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