INCREMENTAL ENCODER MyInc

DINS53

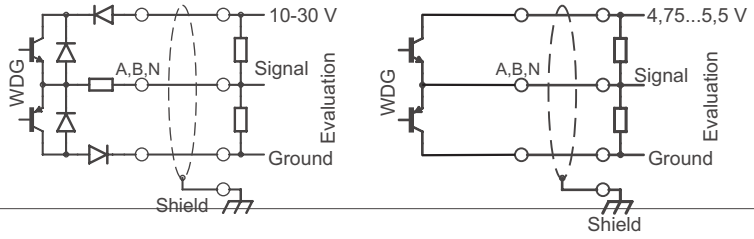
- **Extremely rugged and economical encoder with short measurements**
- **Easy mounting**
- **Meets protection class IP68**

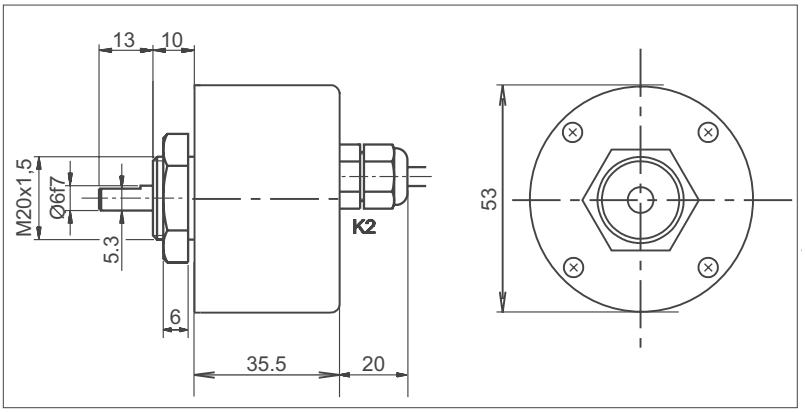
Application fields:

Machines for labelling inspection and filling, industrial elevators also for outdoor use, belt scale in a quarry, automatic car wash machines and crane systems.

Electrical Data:

	G24 / I24	G05 / I05
Design according to	DIN VDE0160	DIN VDE0160
Power supply:	10 - 30 VDC	4,75 - 5,5 VDC
Current consumption::	max. 70 mA	max. 70 mA
Channels	see pulse diagram	
Output:	push-pull	push-pull
Load:	max. 40 mA	max. 40 mA
Signal level:	at 20 mA	at 20 mA
	H > U_B- 2,5 VDC	H > 2,5 VDC
	L < 2,5 VDC	L < 1,2 VDC
Pulse frequency:	max. 200 kHz	max. 200 kHz
Circuit protection:	yes	no
Early-warning output:	conducting when defective	
Cable length:	max. 100 m	max. 100 m





Specifications

Available Pulses (Other PPRs on request)

9, 10, 15, 20, 25, 28, 30, 40, 50, 60, 90, 100, 120, 125, 128, 150, 160, 180, 200, 235, 250, 300, 314, 318, 360, 400, 500, 600, 625, 635, 720, 900, 1000, 1024, 1080, 1200,1250, 1500

Mechanical Data

Housing

- Servo flange:	Aluminium incl. Nut M20 x 1,5
- Housing	Aluminium

Shaft

- Material:	Stainless steel
- Loading on shaft-	max. 20 N radial
End:	max. 10 N axial
- Starting torque:	ca. 1,2 Ncm at ambient temperature

Bearings

- Type:	2 precision ball-Bearings
- Service life:	10^9 U bei 100% of full rated shaft load
	10^{10} revs. at 40%
	10^{11} revs. At 20%
Operating speed:	6.000 rpm
Weight:	approx. 215 g
Connection:	Shielded cable or connector
Anzugsmoment Mutter:	max. 10 Nm

Optics

Light source:	IR - LED
Service life:	typ. 100.000 hrs.
Scanning:	differential

Accuracy

Quadrature phasing:	90° + 7,5%
Pulse on/off ratio:	50% + 7%

Environmental Data

Measured mounted and housing grounded.

ESD (DIN EN 61000-4-2):	8 kV
Burst (DIN EN 61000-4-4):	2 kV
Protection rating: (EN 60529)	Ip68
Vibration (DIN EN 60068-2-6):	50m/s² (10...2000 Hz)
Shock (DIN EN 60068-2-27):	1000m/s² (6 ms)
Operating temperature:	-10... +70 °C
Storage temperature:	-30... +80 °C

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DINS58

ORDERING CODE

	Pulses per revolution	Channels	Output circuit	Electrical connections
DINS58	s. page 1	ABN	G24 = 10–30 VDC G05 = 5 VDC Only for K3, L3, S5: I24 = 10–30 VDC (inv.) I05 = 5 VDC (inv.)	Cable K3 = radial, 2 m, shield not connected (standard) L3 = radial, 2 m, shield connected to encoder housing Connector S3 = 7-pin. radial S5 = 12-pin. radial

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