BDG - FXX58-BC Series - IO-Link











BDG abbcc-ddee-fghhi-jjkk-llmm-nnoo

BDG Encoder

a Principle

F = absolute

bb Version

B0 = A-cast powder-coated mag. shielded radial (58)

cc Flange size

58 = 58 mm

dd Shaft shape, flange

BC = blind hole, clamping flange (clamping ring, spring clamp with hole)

ee Shaft diameter

12 = 12 mm

14 = 14 mm

 $15 = 15 \, \text{mm}$

R6 = 6 mm via reducing sleeve (base 12 mm)

R7 = 7 mm via reducing sleeve (base 12 mm) R8 = 8 mm via reducing sleeve (base 12 mm) RA = 10 mm via reducing sleeve (base 12 mm)

S2 = 1/4"" via reducing sleeve (base 12 mm) S3 = 3/8"" via reducing sleeve (base 12 mm)

f Category interface

N = Absolute digital, bidirectional

g Interface

Ŭ = IO-Link

hh Interface details

S0 = SSP 2, 3.2, v1

i Power supply

L = 18...30 VDC

jj Resolution single turn

1 - 16 = 1 - 16 Bit

kk Resolution multi turn

0 - 43 = 0 - 43 Bit (interface-dependent)

Il Connection cable shielded

00 = no cable

mm Cable length

00 = no cable

oo Pin assignment (connector / cable)

S5 = M12 connector 5 pin A coded

oo Pin assignment (connector / cable)

L4 = IO-Link Class A

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Basic features		Environmental conditions	
Approval/Conformity	CE cULus WEEE UKCA	Ambient temperature IP rating	-4085 °C Housing: IP65, IP67 Shaft entrance: IP65
Measuring principle	absolute measuring system	Storage temperature	-40100°C
Display/Operation		Functional safety	
Function indicator Electrical connection	LED red/green	Diagnostic coverage MTTF (40 °C) Mission Time	0 % 1300 a 20 a
Connection	Connector	Interface	
Electrical data		Interface	IO-Link 1.1
Mean life expectancy	1x 10'9 revs. at 100 % rated shaft load 1x 10'10 revs. at 40 % rated shaft load 1x 10'11 revs. at 20 % rated shaft load	Material Housing material Housing material, surface protection Material flange	Die cast aluminum Powder coated Aluminium
Multi turn technology		Mechanical data	
Operating voltage Ub Single turn accuracy Single turn repeat accuracy Single turn technology Speed max. Switch-on delay max.		Bearings type Flange type Housing diameter Shaft load axial max. Shaft load radial max. Starting torque typ.	2x precision ball bearings End hollow shaft 58 mm 50 N 80 N ca. 1,6 Ncm bei Raumtemperatur

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Connector Diagramm		
$3 \underbrace{ \begin{array}{c} 2 \\ \bullet \\ \bullet \\ \bullet \end{array}}_{4} 1$		

Wiring diagramm

N/A

Pin	Signal
1	L+ (UB)
2	I
3	L- (GND)
4	C/Q
5	n.c.

