BDG - FXX58-BC Series - Profinet

BALLUFF









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

BDG **Encoders**

a Principle

F = absolute

bb Version

B0 = Aluminum casted, coated, shielded radial (58)

cc Size of flange

58 = 58 mm

dd Shaft form, flange

BC = Blind hole, trim ring (clamping ring, spring clamp with hole)

ee Diameter of shaft

12 = 12 mm

14 = 14 mm

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

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

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

S2 = 1/4" with reducing sleeve (base 12 mm)

S3 = 3/8" with reducing sleeve (base 12 mm)

f Interface category

N = Absolute digital, bidirectional

g Interface

N = PROFINET

hh Interface details

EA = PROFINET, v1

i Power supply

3 = 10...32 VDC

jj Resolution single turn [bit]

kk Resolution multi turn [bit]

0 - 43

Il Shielded cable

00 = No cable

mm Cable length in m

00 = No cable

20 = 2 m

50 = 5 m

A0 = 10 m

nn Connectors

BN = bus terminal cover (1x M12 male 4 pin A coded, 2x M12 female 4 pin D coded)

oo Pinout (Cable / Connector)

E3 = Profi/Ethernet/CAT Standard

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Basic features		Environmental conditions	
Approval/Conformity Measuring principle	CE cULus WEEE UKCA absolute measuring system	Ambient temperature IP rating Storage temperature	-4085 °C Housing: IP65, IP67 Shaft entrance: IP65 -40100°C
Display/Operation		Functional safety	
Function indicator Electrical connection	LED red/green	Diagnostic coverage MTTF (40 °C) Mission Time	0 % 300 a 20 a
Connection	Bus hood	Interface	
Electrical data		Interface	Profinet
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	Wiegand wire	Mechanical data	
Operating voltage Ub Single turn accuracy Single turn repeat accuracy Single turn technology Speed max. Switch-on delay max.	10 32 VDC ± 0.0878° (≤ 12 bits) ± 0.0878° (≤ 12 bits) Hall sensor 6000 U/min 1.5 s	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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