WACHENDORFF
The Encoder Experts

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WDG(Series) - XXXX - Ø - PPR - ABN - XXX - XXX - VAR

Series

WDGN (progammable)
WDG / WDGI
WDGP

XXXX Flange size (mm) and type

24
30
36
50
58
63.5 (2.5")
67.3 (2.75")
70
80
100
115
145

A Syncro flange
B Clamping flange
C Round flange (extended boreholes)
D Clamping flange (heavy duty)
E Blind bore hollow shaft
F Clamping flange (compact desgin)
G Hollowshaft (special torque support)
H Hollowshaft
I Hollowshaft (isolated)
K Round flange (if Ø 36 or 40) Clamping flange (if Ø 58 [long 6 mm shaft])
J Servo flange (extended shaft load and IP)
M Tacho flange (if Ø 115 [11 mm shaft]) Motorfeedback flange (if Ø 58)
N Clamping flange (with additional 1.25")
Q Square flange
R Stator coupling
S Screw flange (if Ø 36 or 40) Clamping flange (if Ø 58 [Corrosion resistance])
T Tacho flange (10 mm shaft)
V Screw flange (if Ø 53) Clamping flange (if Ø 58 [food and beverage])

Ø in mm

Ø Shaft
10 Konus 1/10 9.25 mm [3/8"]
06
2Z 6.35 [1/4"]
08
4Z 9.525 [3/8"]
10
11
12
if no value WDG solid-shaft encoder
Ø Hollow or blind bore
6 - 72 mm

PPR

X WDGN (program-mable)
1 - 25000 WDG WDGI
1 - 16384 WDGP

Signals

X WDGN (program-mable)
A A channel
AB A and B channel
ABN A and B channel + zero pulse

XXX Electronic (output type)

WDGN:
ADV 4.75 - 32 VDC HTL/ TTL inverted, 600 kHz / 1 MHz
BAS 4.75 - 32 VDC HTL/ TTL inverted, 600 kHz / 1 MHz
WDG:
M05 4,75 - 5,5 TTL, RS422 komp., inv., 20 kHz
M30 5 - 30 VDC HTL, inv. (TTL/RS422 komp. at 5 VDC) 200 kHz
N05 4.75 - 5,5 VDC TTL 20 kHz
N30 5 - 30 VDC HTL (TTL at 5 VDC) 200 kHz
WDGI:
245 10 - 30 VDC TTL (RS422 comp.) inv., 200 kHz
645 10 - 30 VDC TTL (RS422 comp.) inv., 2 MHz
F05 4.75 - 5.5 VDC TTL, 2 MHz
F24 10 - 30 VDC HTL, 600 kHz,
H05 4.75 - 5.5 VDC TTL, 200 kHz
H24 10 - 30 VDC HTL, 200 kHz,
H30 5 - 30 VDC HTL/ TTL at 5 VDC, 200 kHz

WDGI:
M35 4.75 - 30 VDC HTL/ TTL inverted, 600 kHz / 1 MHz,
N35 4.75 - 30 VDC HTL/ TTL 600 kHz / 1 MHz
P05 4.75 - 5.5 VDC TTL (RS422 comp.) inverted, 2 MHz
P24 10 - 30 VDC HTL inv., 600 kHz,
R05 4.75 - 5.5 VDC TTL (RS422 comp.) inverted, 200 kHz
R24 10 - 30 VDC HTL inverted, 200 kHz
R30 5 - 30 VDC HTL/ TTL inv. 200 kHz
SIN 4.75 - 5.5 VDC, 1 Vpp Sin/ Cos, 200 kHz
WDGP:
M13 4.75 - 30 VDC HTL inv., 600 kHz
M14 4.75 - 30 VDC TTL (RS422 comp.) inv., 1 MHz
N13 4.75 - 30 VDC HTL, 600 kHz,
N14 4.75 - 30 VDC TTL, 1 MHz

XXX electrical connection

Cable 2 m: shield not connected
K1 radial, IP40
K2 axial
K3 radial
K7 radial (WDG24 or 30)
Cable 2 m: shield connected
L2 axial
L3 radial
L7 radial (WDG24 or 30)
T3 tangential
Connector:
S2 M16, axial, 7-pin
S3 M16, radial, 7-pin
SI5 M16, axial, 5-pin
SH5 M16, radial, 5-pin
SI6 M16, axial, 6-pin
SH6 M16, radial, 6-pin
SI8 M16, axial, 8-pin
SH8 M16, radial, 8-pin
SI12 M16, axial, 12-pin
SH12 M16, radial, 12-pin
S4/S4R M23 axial, 12-pin (R= clockwise)
S5/S5R M23 radial, 12-pin (R= clockwise)
SB4 M12, axial, 4-pin
SC4 M12, radial, 4-pin
SB5 M12, axial, 5-pin
SC5 M12, radial, 5-pin
SB8 M12, axial, 8-pin
SC8 M12, radial, 8-pin
SB12 M12, axial, 12-pin
SC12 M12, radial, 12-pin
SK6 M8 radial, 6-pin
SK8 M8 radial, 8-pin

Cable length or Variant number

Cable length in dm
050
100
150
200
250
VAR
Variant number