

MAIN FEATURES

Sturdy encoder suitable for AC motor feedback, lift gears and heavy duty applications.

- Compact size
- Bidirectional signal with zero
- Up to 1024 ppr
- Line driver output
- 3000 rpm max
- Working temperature: -20° ... +85 °C



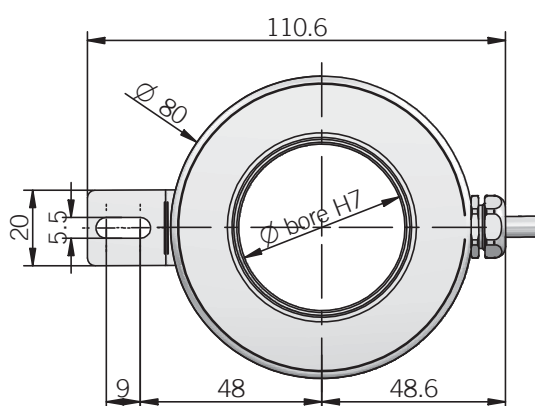
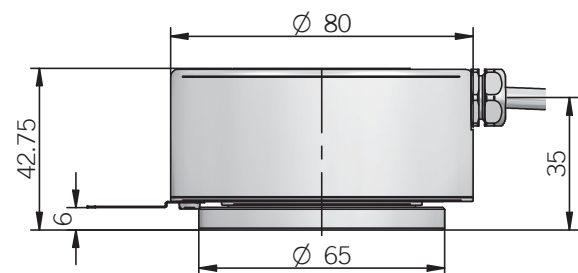
ORDERING CODE

EH 80 PF P 1024 Z 5 L 30 X 3 PR . XXX												
SERIES												VARIANT
incremental encoder series EH												XXX custom version
SIZE												OUTPUT TYPE
mm 80												PR radial cable output (standard length 0.5 m)
FIXING TYPE												MAX ROTATION SPEED
through hollow shaft and fixing with spring PF												3 3000 rpm
TYPE												ENCLOSURE RATING
front fixing A												X IP 64
rear fixing P												HOLLOW SHAFT
												30 mm
												35 mm
												40 mm
												44 mm (available only with A type)
RESOLUTION												ELECTRONIC INTERFACE
ppr 1000 / 1024												P push pull
												PC protected push-pull (AEIC-7272)
												L line driver
ZERO PULSE												
without zero pulse S												
with zero pulse Z												
POWER SUPPLY												
(available only with L electronic output) 5 V DC 5												
(available only with L or PC electronic output) 8 ... 24 V DC 8/24												
5 ... 28 V DC 5/28												

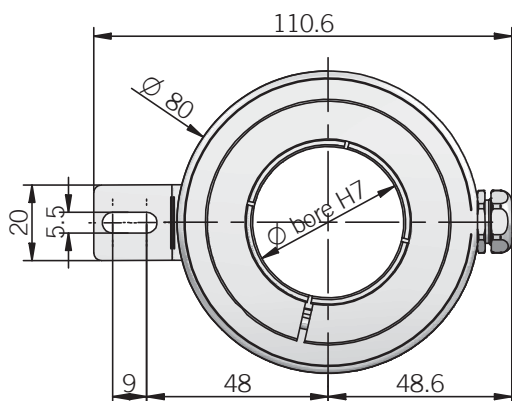
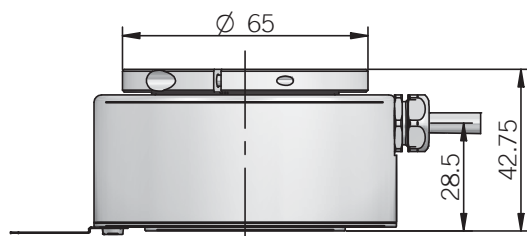
N.B.: please directly contact our offices for pulses availability

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EH 80 PFA



EH 80 PFP



Electrical specifications

Resolution	1000 / 1024 ppr
Power supply	5 V DC $\pm$ 10% 5 ... 28 V DC $\pm$ 5% 8 ... 24 V DC $\pm$ 5% (reverse polarity protection)
Current consumption without load	100 mA max
Max load current	20 mA for channel
Output type	push-pull line driver
Max output frequency	100 kHz
Counting direction	A leads B clockwise (shaft view)
Electromagnetic compatibility	IEC 61000-6-2 IEC 61000-6-4

Mechanical specifications

Bore diameter	model PFA: ϕ 30 / 35 / 40 / 44 mm model PFP: ϕ 30 / 35 / 40 mm
Enclosure rating	IP 64 (IEC 60529)
Max rotation speed	3000 rpm
Shock	50 G, 11 ms (IEC 60068-2-27)
Vibrations	10 G, 10÷2000 Hz (IEC 60068-2-6)
Body material	EN-AW 2011 aluminum
Shaft material	1.4305 / AISI 303 stainless steel
Housing material	EN-AW 2011 aluminum
Bearings	2 ball bearings
Bearings life	10 ⁹ revolutions
Operating temperature	-20° ... +85 °C
Storage temperature	-20° ... +85 °C
Weight	800 g

Connections and standard colours

Function	Push pull / Npn / Npn open collector	Line driver
+V DC	red	red
0 V	black	black
Ch. A	green	green
Ch. A-	/	brown
Ch. B	yellow	yellow
Ch. B-	/	orange
Ch. Z	blue	blue
Ch. Z-	/	white
$\equiv$	shield	shield