

ROTACOD

ATEX absolute encoder

Series

XAC77



- Encoder with ATEX II 2GD Ex d IIC T6 certification
- For use in zones 1, 2, 21 and 22
- Resolution up to 30 bit
- SSI, Profibus, CANopen and parallel output



XAC77

ENVIRONMENTAL SPECIFICATIONS

Shock:	100 g, 6 ms
Vibrations:	10 g, 10-2000 Hz
Protection:	IP65
Environmental temperature at max. speed:	40°C max.
Operating temperature range:	-25°C +85°C (-13°F +185°F)
Storage temperature range:	-25°C +85°C (-13°F +185°F) (98% R.H. without condensation)

MECHANICAL SPECIFICATIONS

Protection mode:	EEx d IIC T6
Dimensions:	see drawing
Shaft diameter:	∅ 14 mm
Shaft loading (axial, radial):	60 N max.
Shaft rotational speed:	6000 rpm max.
Starting torque (at 20°C):	< 5 Ncm
Bearings life:	400x10 ⁶ rev. min. (10 ⁹ rev. min. with shaft loading of 20 N max.)
Electrical connections:	cable output 1 m (3.3 ft)
Weight:	~ 1 kg (35,2 oz)
Option:	• additional cable

ELECTRICAL SPECIFICATIONS

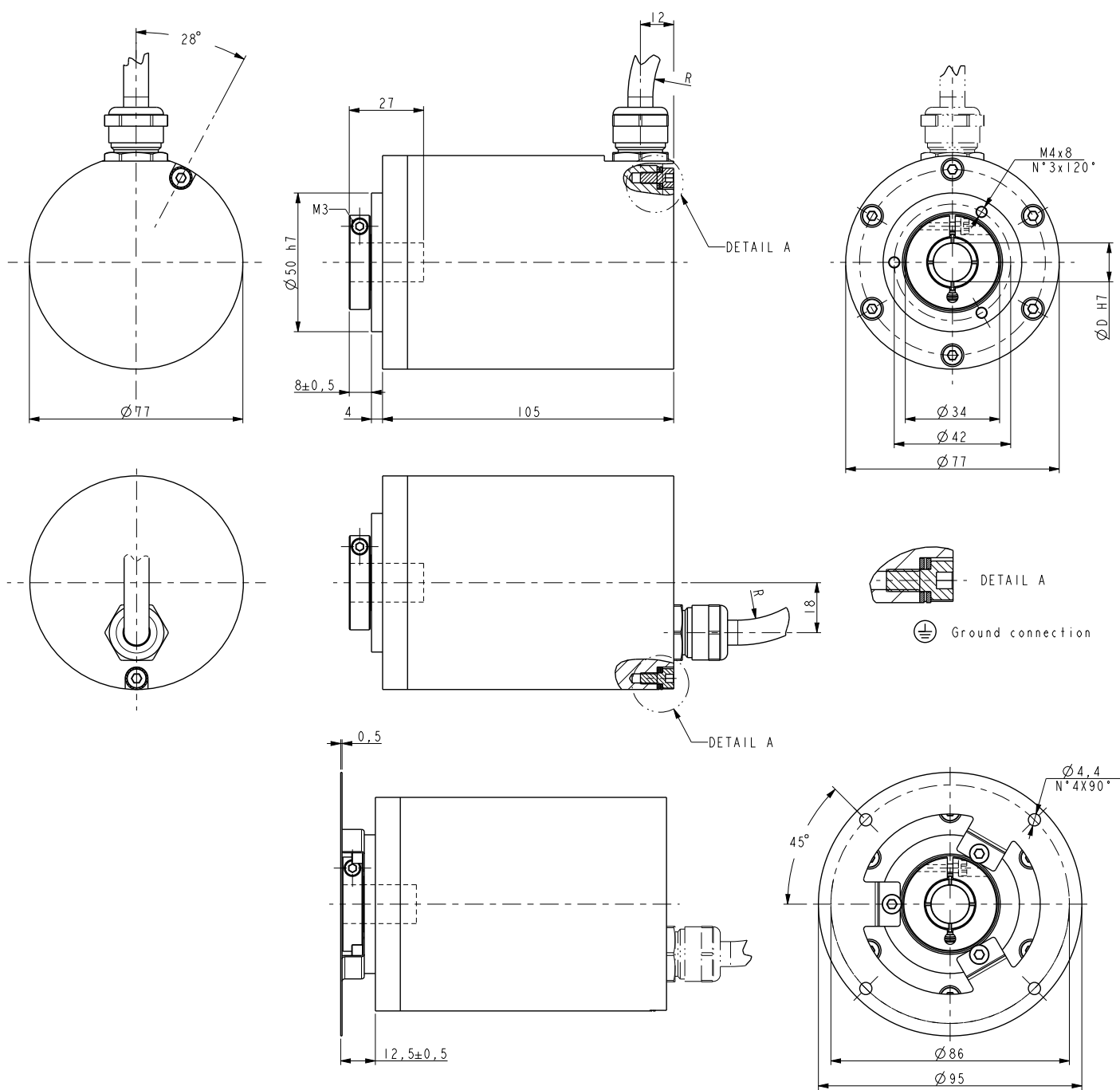
Resolution:	SSI, Bit Parallel: 8192 cpr max. or 8192 cpr x 4096 turns max. Analogue output: 12 bit or 13 x 14 bit Profibus, CANopen: 262144 cpr or 65536 cpr x 16384 turns
Accuracy:	± 0,04°
Output circuits:	SSI (RS422), Bit Parallel NPN, Push Pull Profibus-DP, CANopen 0-5V, 0-10V, -5/+5V, -10/+10V 4-20mA, 0-20mA, 0-24mA
Output code:	Gray, Binary
Counting frequency:	> 150 kHz
Power supply:	+10Vdc +30Vdc
Power consumption:	2,2 W max.
Protection:	against inversion of polarity and short circuit
EMC:	electro-magnetic immunity, according to: EN 61000-4-2 EN 61000-4-4
Functions:	• Counting direction (input) • Zero setting / Preset (input) <i>Profibus, CANopen functions refer to HM58 FB series on page 186</i> <i>Analogue functions refer to EM58 PA series on page 168</i>
Optoelectronic life:	100.000 hrs min.

MATERIALS

Flange:	anticorodal, EN AW-6082 (UNI EN 573)
Housing:	anticorodal, EN AW-6082 (UNI EN 573)
Bearings:	ABEC 5
Shaft:	1.4305 (UNI EN 10088-1)

ACCESSORIES

LKM-1758:	∅ 10 mm solid shaft extension
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XAC77

Order code - Profibus and CANopen

XAC77	XX/XXXXX Ⓐ	XX Ⓑ	-	XX Ⓒ	-	X Ⓓ	XX Ⓔ	/Sxxx Ⓕ
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Ⓐ RESOLUTION

18/1 = 262144 cpr single turn
16/16384 = 65536 cpr x 16384 turns

Ⓑ OUTPUT

PB = Profibus-DP V1
CB = CANopen DS301, DS406

Ⓒ SHAFT DIAMETER

14 = 14 mm

Ⓓ CONNECTION POSITION

- = axial
R = radial

Ⓔ CABLE LENGTH

L1 = cable output 1 m (standard)
L2 = cable output 2 m
Lx = cable output x m

Ⓕ CUSTOM VERSION

Order code - SSI and Bit Parallel

XAC77	XX Ⓐ	/	XXXXX Ⓑ	X Ⓒ	XX Ⓓ	-	XX Ⓔ	-	X Ⓕ	XX Ⓖ	/Sxxx Ⓗ
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Ⓐ RESOLUTION

12 = 4096 cpr
13 = 8192 cpr

Ⓑ REVOLUTIONS

1 = single turn
4096 = 4096 turns
16384 = 16384 turns

Ⓒ OUTPUT CODE

B = Binary
G = Gray

Ⓓ OUTPUT CIRCUITS

N = NPN o.c.
Y = Push-Pull
R = SSI, tree format
B = SSI, LSB aligned

Ⓔ SHAFT DIAMETER

14 = 14 mm

Ⓕ CONNECTION POSITION

- = axial
R = radial

Ⓖ CABLE LENGTH

L1 = cable output 1 m (standard)
L2 = cable output 2 m
Lx = cable output x m

Ⓗ CUSTOM VERSION

Order code - Analogue output

XAC77	XX/XXXXX Ⓐ	XX Ⓑ	-	XX Ⓒ	-	X Ⓓ	XX Ⓔ	/Sxxx Ⓕ
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Ⓐ RESOLUTION

12/1 = 12 bit single turn
12/16384 = 12 x 14 bit

Ⓑ OUTPUT

PA = Programmable analogue

Ⓒ SHAFT DIAMETER

14 = 14 mm

Ⓓ CONNECTION POSITION

- = axial
R = radial

Ⓔ CABLE LENGTH

L1 = cable output 1 m (standard)
L2 = cable output 2 m
Lx = cable output x m

Ⓕ CUSTOM VERSION