ROTAPULS
ATEX incremental encoder

series **XC77**



XC77

ENVIRONMENTAL SPECIFICATIONS	
Schock:	50 g, 11 ms (EN 60068-2-27)
Vibrations:	10 g, 10-2000 Hz (EN 60068-2-6)
Operating temperature range:	-20°C +40°C (-4°F +104°F)
Storage temperature range:	-20°C +80°C (-4°F +176°F) (98% R.H. without condensation)
Protection:	IP65

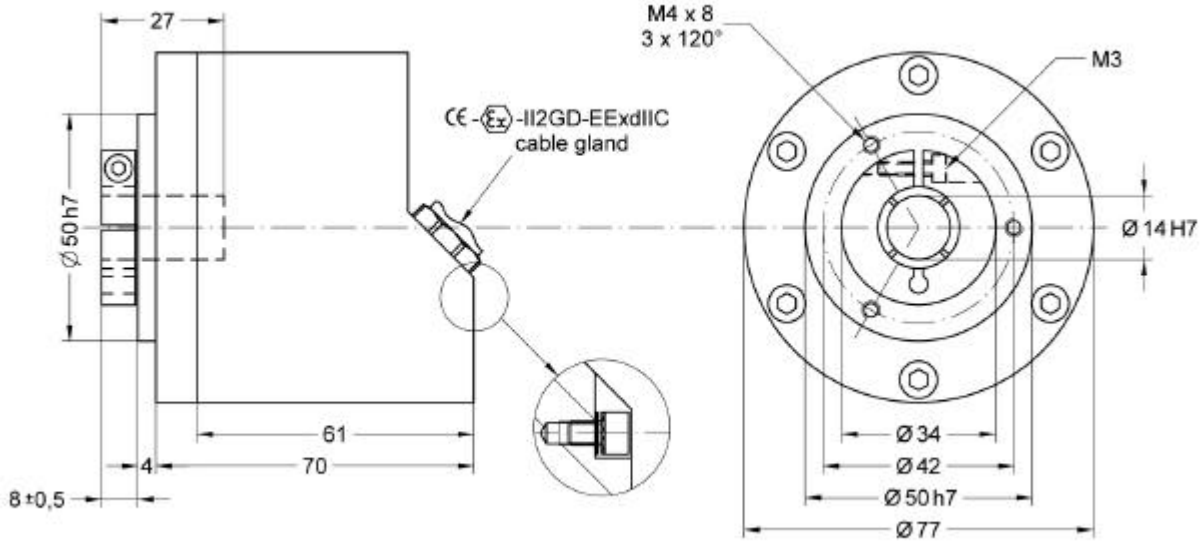
MECHANICAL SPECIFICATIONS	
Protection mode:	EEx d IIC T6
Dimensions:	see drawing
Shaft:	Ø 14 mm
Shaft loading (axial and radial):	60 N max.
Shaft rotational speed:	6000 rpm max.
Starting torque at 20°C:	< 5 Ncm
Moment of inertia:	~ 40 gcm^2
Bearings life:	10^9 rev. min.
Weight:	~ 0,9 kg

ELECTRICAL SPECIFICATIONS	
STD pulse rate (other PPR upon request):	2-4-5-6-10-12-15-16-18-20-24-25-30-35-36-39 40-45-50-60-64-70-80-90-100-120-122-125-127 142-150-180-200-216-236-240-250-254-256 267-270-300-314-360-375-400-410-433-435 471-500-512-600-625-628-635-720-750-784 800-875-900-946-1000-1024-1068-1099-1200 1250-1270-1440-1500-1800-2000-2048-2250 2400-2500-3000-3600-4000-4096-5000-6000 8192-9000-10000
Power supply:	5Vdc ± 5%, +10Vdc +30Vdc, +5Vdc +30Vdc
Input current:	70 mA max.
Output circuits:	NPN o.c., Push-Pull, Line Driver, PP/LD
Output current (per channel):	40 mA max.
Output frequency:	100 kHz max.
Protection:	against inversion of polarity (except +5V version)
Optoelectronic life:	100.000 hrs min.

MATERIALS	
Flange:	EN AW-6082 (UNI EN 573) non corroding
Housing:	EN AW-6082 (UNI EN 573) non corroding
Bearings:	ABEC 5
Shaft and clamping ring:	1.4305 (UNI EN 10088-1)

Specifications subject to changes without prior notice

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XC77

ORDERING CODE

XXXX	-	X	-	XXXXX	X	X	XX

SERIES

XC77

OUTPUT CIRCUITS

NPN o.c.	N
Push-Pull	Y
Line Driver AD26LS31	L
PP/LD universal circuit	H

PULSE RATE (PPR)

see electrical specifications

OUTPUT SIGNALS CONFIGURATION

Bidirectional with index pulse	Z

SUPPLY VOLTAGE VS OUTPUT CIRCUIT

1	+5Vdc ±5% (L output circuit)
2	+10Vdc÷+30Vdc (N and Y output circuits)
4	+5Vdc÷+30Vdc (H output circuit)

SHAFT DIAMETER

14	14 mm

ADDITIONAL CODE (indicate only if necessary)

X

Lx	Cable length on request Ex.: L4 = 4 meters (13.2 ft) L7 = 7 meters (23.0 ft)