

# ROTAMAG

Magnetic incremental encoders

series

MI36 • MC36

CE



## ENVIRONMENTAL SPECIFICATIONS

Schock:	100 g, 6 ms (MIL STD 202F)
Vibrations:	10 g, 5-2000 Hz (MIL STD 202F)
Operating temperature range:	-20°C +85°C (-4°F +185°F)
Storage temperature range:	-20°C +85°C (-4°F +185°F) (98% R.H. without condensation)
Protection:	IP65
Option:	• IP67 protection

## MECHANICAL SPECIFICATIONS

Dimensions:	see drawing
Shaft:	Ø 6 mm
Shaft loading (axial and radial):	20 N max.
Shaft rotational speed:	12000 rpm max.
Starting torque at 20°C:	≤ 0,3 Ncm
Moment of inertia:	~ 20 gcm <sup>2</sup>
Bearings life:	10 <sup>9</sup> rev. min.
Weight:	~ 0,06 kg
Electrical connections:	1 m. cable (3.3 ft)
Accuracy:	± 1°

## ELECTRICAL SPECIFICATIONS

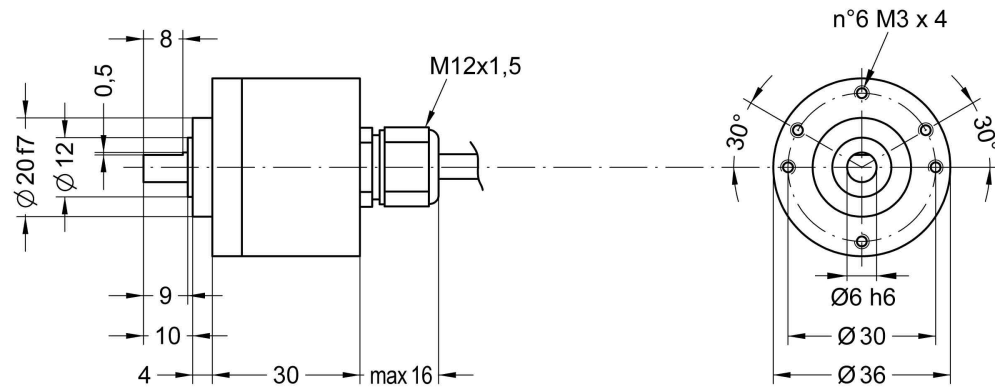
STD pulse rate: (other PPR upon request):	4-8-10-16-20-25-32-40-50-64-80-100-125-128 200-250-256-400-500-512-1024-2048
Power supply:	5Vdc ±5%, +10Vdc +30Vdc
Output circuits:	NPN, Push-Pull, Line Driver
Output current (per channel):	40 mA max.
Output frequency:	300 kHz max.
Input current:	50 mA max.
Protection:	against inversion of polarity and short-circuit (except 5Vdc version)

## MATERIALS

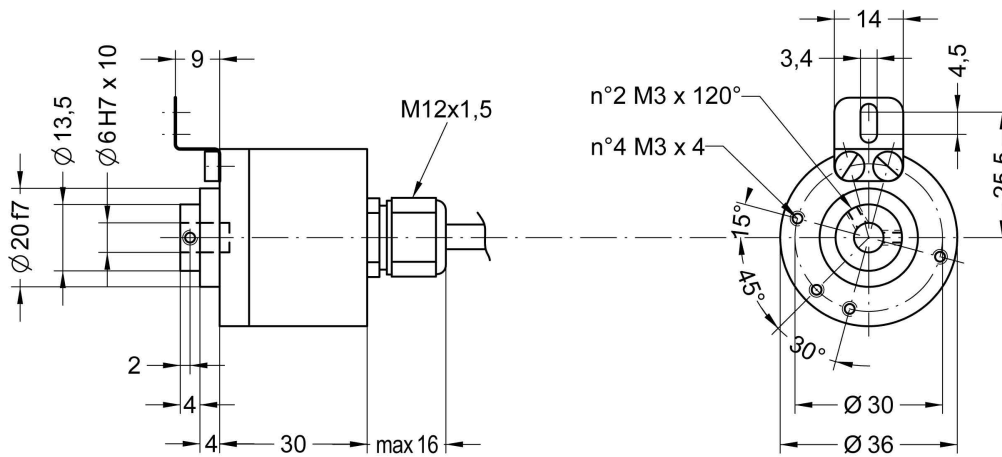
Flange:	non corroding
Housing:	non corroding
Bearings:	ABEC 5
Shaft:	stainless steel, non magnetic

## ACCESSORIES

PAN/PGF:	Flexible couplings
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MI36



MC36

ORDERING CODE

ADDITIONAL CODE (indicate only if necessary)

XXXX - X - XXXX X X X X X X X X

**SERIES**  
MI36 - MC36

**OUTPUT CIRCUITS**  
NPN o.c. N  
Push-Pull Y  
Line Driver AD26LS31 L

**PULSE RATE (PPR)**  
See electrical specifications

OUTPUT SIGNALS CONFIGURATION

2-kanalig + Index Z

SHAFT DIAMETER

6 6 mm

ELECTRICAL CONNECTIONS

N	Normal output	F	5 wires cable, 1 m. (3.3 ft)
C	Complementary outputs	U	8 wires cable, 1 m. (3.3 ft)

see notes on page 59-60

SUPPLY VOLTAGE VS OUTPUT CIRCUIT

+5Vdc ±5% (L output circuit)	1
+10Vdc ÷ +30Vdc (N, Y output circuit)	2

X X

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

J IP67 Protection