ROTAPULS
Magnetic incremental encoder

Series **MI36K • MC36K**

- Compact magnetic encoders
- Stainless steel housing for the food industry
- IP67 protection with sealed circuits (option)



MI36K • MC36K

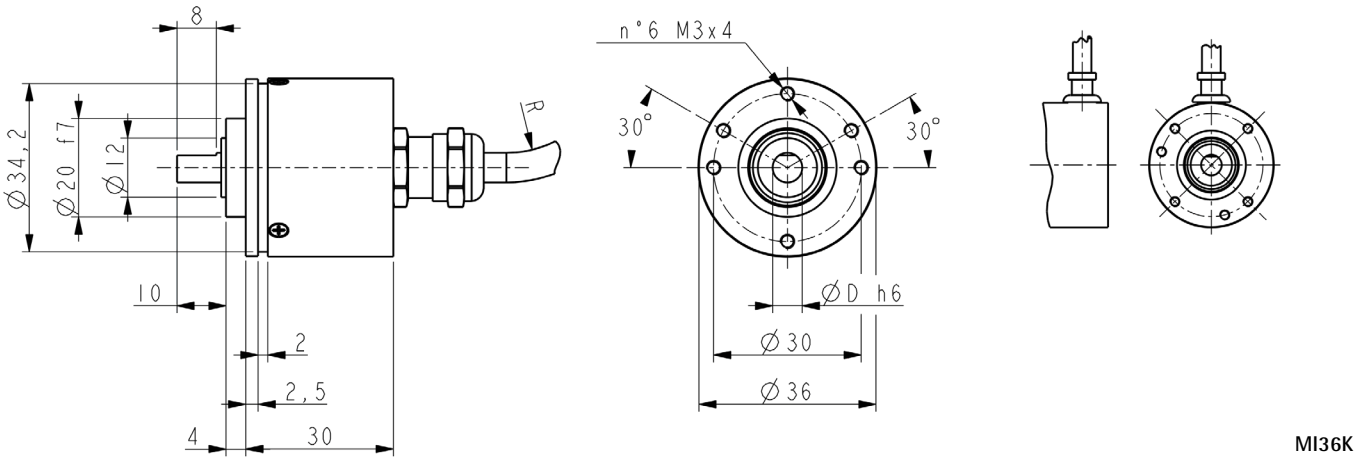
ENVIRONMENTAL SPECIFICATIONS	
Shock:	250 g, 6 ms acc. to CEI EN 60068-2-27
Vibrations:	10 g, 5-2000 Hz acc. to CEI EN 60068-2-6
Protection:	IP65
Operating temperature range:	-25°C +85°C (-13°F +185°F)
Storage temperature range:	-25°C +85°C (-13°F +185°F) (98% R.H. without condensation)
Option:	• IP67 protection with sealed circuits

MECHANICAL SPECIFICATIONS	
Dimensions:	see drawing
Shaft diameter:	Ø 6 mm
Shaft loading (axial and radial):	20 N max.
Shaft rotational speed:	12000 rpm max.
Starting torque (at 20°C):	0,1 Ncm (typical)
Bearings life:	10^9 rev. min.
Electrical connections:	cable output 1 m (3.3 ft)
Weight:	~ 50 g (1,7 oz)
Option:	• additional cable

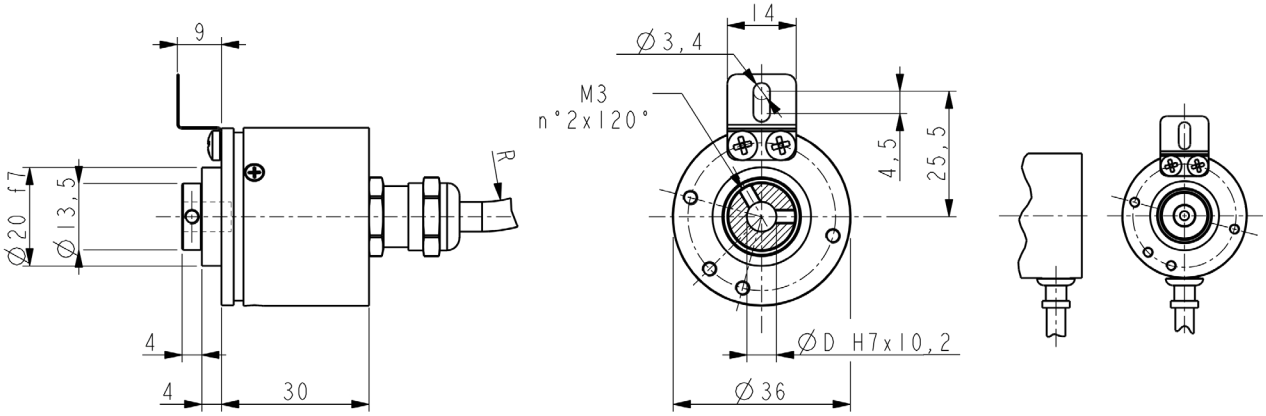
ELECTRICAL SPECIFICATIONS	
Resolution (PPR):	4-8-10-16-20-25-32-40-50-64-80-100-125-128 200-250-256-400-500-512-1024-2048
Accuracy:	± 1°
Counting frequency:	300 kHz max.
Output circuits:	NPN, Push-Pull, Line Driver
Power supply:	5Vdc ±5%, +10Vdc +30Vdc
Consumption:	50 mA max.
Output current (each channel):	40 mA max.
Protection:	against inversion of polarity and short-circuit (except L circuit)
EMC:	electro-magnetic immunity, according to: EN 61000-4-2 EN 61000-4-4

MATERIALS	
Flange:	AISI 303 stainless steel
Housing:	AISI 303 stainless steel
Bearings:	ABEC 5
Shaft:	AISI 303 stainless steel

ACCESSORIES	
MSTS-16-6-6:	Stainless steel coupling



MI36K



MC36K

Order code

MI36K MC36K	-	XX ⓐ	-	XXXXX ⓑ	-	XXX ⓒ	-	XX ⓓ	-	X ⓔ	X ⓕ	-	X ⓖ	XXXX ⓗ	/Sxxx ⓘ

ⓐ **OUTPUT CIRCUITS / POWER SUPPLY**
N2 = NPN o.c., +10V÷ +30V
Y2 = Push Pull, +10V÷ +30V
L1 = Line Driver (RS422), +5V±5%

ⓑ **RESOLUTION (PPR)**
See electrical specifications

ⓒ **OUTPUT SIGNALS**
ZNF = AB0
ZCU = AB0, /AB0

ⓓ **SHAFT DIAMETER**
06 = 6 mm

ⓔ **PROTECTION**
P = IP65 (standard)
J = IP67 (with sealed circuits)

ⓕ **OPERATING TEMPERATURE**
T = -25°C +85°C (-13°F +185°F)

ⓖ **CONNECTION POSITION**
A = axial

ⓗ **CABLE LENGTH**
L010 = cable output 1 m (standard)
L020 = cable output 2 m
Lxx0 = cable output x m (max. 10 m)

ⓘ **CUSTOM VERSION**

Document release	Date	Description
1.0	4.08.2025	New order code