

ROTAMAG

Magnetic incremental encoders

series

MC58 • MC59 • MC60



MC58-MC59-MC60

ENVIRONMENTAL SPECIFICATIONS

Shock:	100 g, 6 ms (acc. to MIL STD 202F)
Vibrations:	10 g, 5-2000 Hz (acc. to MIL STD 202F)
Operating temperature range:	-20°C +70°C (-4°F +158°F)
Storage temperature range:	-20°C +80°C (-4°F +176°F) (98% R.H.without condensation)
Protection:	IP64
Option:	• IP67 Protection (only with cable output)

MECHANICAL SPECIFICATIONS

Dimensions:	see drawing
Shaft hollow:	Ø 14, 15 mm
Shaft loading (axial and radial):	30 N max.
Shaft rotational speed:	6000 rpm max.
Starting torque at 20°C:	≤ 1,5 Ncm (typical)
Moment of inertia:	~30 gcm ²
Bearings life:	10 ⁹ rev. min.
Weight:	~ 0,3 kg (10,6 oz)

ELECTRICAL SPECIFICATIONS

STD pulse rate:	20-40-80-160-200-320-400-500-640-800-1000
(other PPR upon request)	1280-1600-2000-2500-2560
Power supply:	+5V ±5%, +10V +30V, +5V +30V
Output circuits:	Push-Pull, Line Driver, PP/LD
Output current (per channel):	40 mA max.
Output frequency:	500 kHz max.
Input current:	60 mA max.
Protection:	against inversion of polarity (except +5V version) outputs are protected against short-circuit (except Line Driver version)

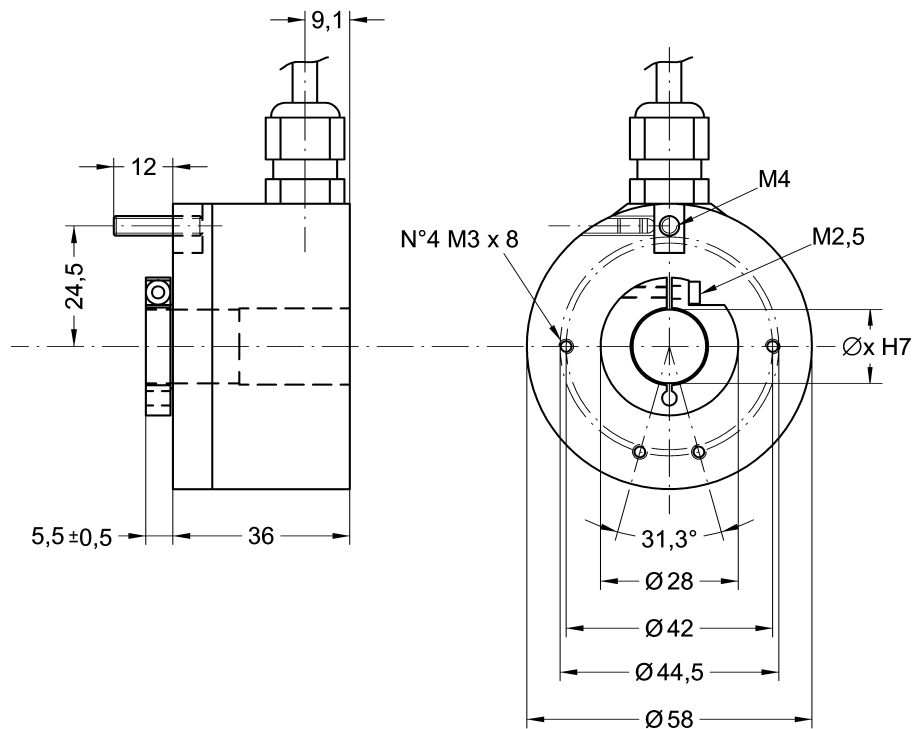
MATERIALS

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

ACCESSORIES

EDE9S:	9 pin DSub mating connector
BR1:	Reducing sleeves

Specifications subject to changes without prior notice



MC58

ORDERING CODE

XXXX	-	X	-	XXXX	X	X	X	X	X								
SERIES MC58 - MC59* - MC60* * Dimensional drawing on page 65					SHAFT DIAMETER 14 14 mm 15 15 mm Reducing sleeves see on page 75												
OUTPUT CIRCUITS Push-Pull Y Line Driver AD26LS31 or eqv. L PP/LD universal circuit H					ELECTRICAL CONNECTIONS <table border="1"> <tr> <td>N</td> <td>Normal output</td> <td>F</td> <td>5 wires cable, 1m. (3.3 ft)</td> </tr> <tr> <td>C</td> <td>Complementary outputs</td> <td>U</td> <td>8 wires cable, 1m. (3.3 ft)</td> </tr> </table>					N	Normal output	F	5 wires cable, 1m. (3.3 ft)	C	Complementary outputs	U	8 wires cable, 1m. (3.3 ft)
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PULSE RATE (PPR) See electrical specifications					SUPPLY VOLTAGE VS OUTPUT CIRCUIT <table border="1"> <tr> <td>+5V ±5% (L output circuit)</td> <td>1</td> </tr> <tr> <td>+10V ÷ +30V (Y output circuits)</td> <td>2</td> </tr> <tr> <td>+5V ÷ +30V (PP/LD universal circuit)</td> <td>4</td> </tr> </table>					+5V ±5% (L output circuit)	1	+10V ÷ +30V (Y output circuits)	2	+5V ÷ +30V (PP/LD universal circuit)	4		
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OUTPUT SIGNALS CONFIGURATION Bidirectional B					ADDITIONAL CODE (indicate only if necessary) X X X C Inline connector DSub 9 pin Cable length on request Lx Ex.: L4 = 4 meters (13.2 ft) L7 = 7 meters (23.0 ft) J IP67 Protection												