

ROTAPULS

Incremental Encoders

series

C58 • C59 • C60



C58-C59-C60

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:	• IP65 Protection (3000 rpm max, torque 1 Ncm)

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: (other PPR upon request)	2-4-5-10-12-15-16-18-20-24-25-30-35-36-39-40 45-50-60-64-70-80-90-100-120-122-125-142 150-180-200-236-250-267-270-300-314-360-400 410-433-435-471-500-600-625-628 635-720-784 800-875 900-946-1000-1024
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:	60 kHz max.
Input current:	70 mA max.
Protection:	against inversion of polarity (except +5V version) outputs are protected against short-circuit (except Line Driver version)
Optoelectronic life:	100.000 hrs min.

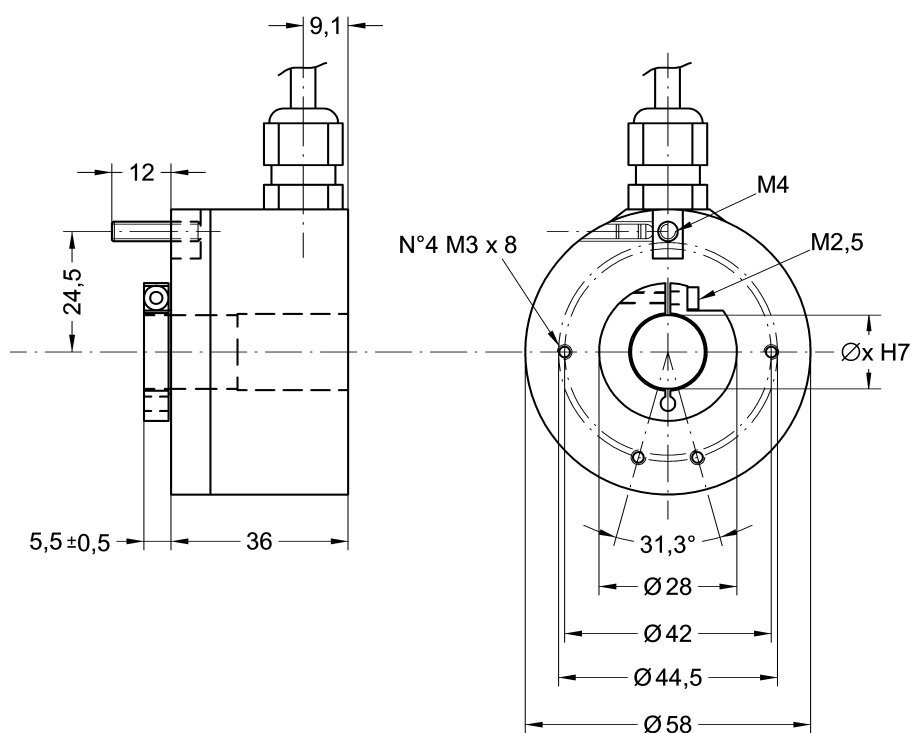
MATERIALS

Flange:	non corroding
Housing:	non corroding
Bearings:	ABEC 5
Shaft:	stainless steel, non-magnetic
Light source:	GaAl diodes

ACCESSORIES

EDE9S:	9 pin DSub mating connector
BR1:	Reducing sleeves

Specifications subject to changes without prior notice



C58

ORDERING CODE

ADDITIONAL CODE (indicate only if necessary)

ORDERING CODE		ADDITIONAL CODE (indicate only if necessary)	
XXXX - X - XXXX	X	X	X
SERIES			
C58 - C59* - C60*			
* Dimensional drawing on page 65			
OUTPUT CIRCUITS			
Push-Pull	Y		
Line Driver AD26LS31 or eqv.	L		
PP/LD universal circuit	H		
PULSE RATE (PPR)			
See electrical specifications			
OUTPUT SIGNALS CONFIGURATION			
Bidirectional	B		
Bidirectional with index pulse	Z		
ELECTRICAL CONNECTIONS			
N Normal output	F 5 wires cable, 1m. (3.3 ft)		
C Complementary outputs	U 8 wires cable, 1m. (3.3 ft)		
SUPPLY VOLTAGE VS OUTPUT CIRCUIT			
+5V±5% (L output circuit)	1		
+10V÷ +30V (Y output circuits)	2		
+5V÷ +30V (PP/LD universal circuit)	4		
SHAFT DIAMETER			
14 14 mm			
15 15 mm			
Reducing sleeves see on page 75			
C			
Inline connector DSub 9 pin			
Cable length on request			
Lx Ex.: L4 = 4 meters (13.2 ft)			
L7 = 7 meters (23.0 ft)			
P			
IP65 Protection			