

ROTAPULS

Incremental encoder

Series

I58SK



- Stainless steel encoder for the food industry
- IP67 washdown protection
- Clamp flange mounting
- Cable or M23 connector output
- HTL, TTL and sine/cosine output



I58SK

ENVIRONMENTAL SPECIFICATIONS

Shock:	100 g, 6 ms
Vibrations:	10 g, 5-2000 Hz
Protection:	IP67
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)
Options:	• Operating temperature range: -40°C +100°C (-40°F +212°F)

MECHANICAL SPECIFICATIONS

Dimensions:	see drawing
Shaft diameter:	Ø 6, 8, 9.52, 10, 12 mm
Shaft loading (axial, radial):	100 N max.
Shaft rotational speed:	6000 rpm
Starting torque at 20°C:	0,4 Ncm (typical)
Bearings life:	400 x 10 ⁶ rev. min. (10 ⁹ rev. min. with 20 N shaft loading max.)
Electrical connections:	M23 nichel plated plug or axial cable 1 m (3.3 ft)
Weight:	~ 500 g (17,6 oz)
Options:	• additional cable

ELECTRICAL SPECIFICATIONS

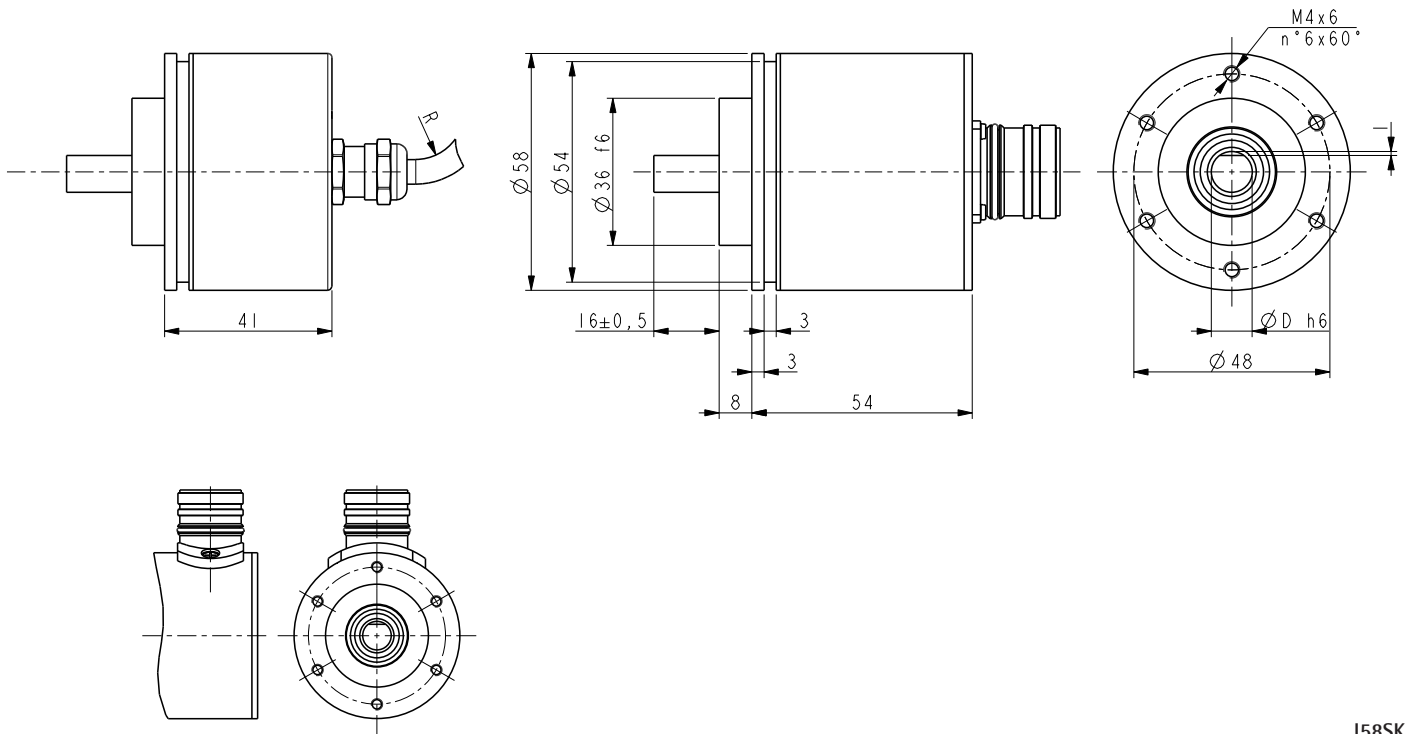
Resolution (PPR): (output circuit N, P, Y, L, H)	2-4-5-8-10-12-15-16-20-24-25-30-35-36-40-50-60-64-70-80-90 100-120-127-142-150-160-180-200-216-230-236-240-250-254 256-267-270-300-314-360-375-400-410-435-471-500-512-600 635-720-750-800-900-1000-1024-1068-1200-1250-1270-1400 1440-1500-1800-2000-2048-2250-2400-2500-3000-3600-4000 4096-5000-6000-8192-9000-10000
Resolution (PPR): (output circuit V)	500-512-1000-1024-1250-2000-2048-2500
Counting frequency:	100 kHz max.
Output circuits:	NPN o.c., PNP o.c., Push-Pull, Line Driver, Universal circuit, Sine/cosine
Power supply:	+5V±5%, +10V +30V,+5V +30V (sine/cosine only +5V±5%)
Consumption:	70 mA (typical)
Output current (each channel):	40 mA max.
Protection:	against inversion of polarity and short-circuit (except L and V circuit)
EMC:	electro-magnetic immunity, according to: EN 61000-4-2 EN 61000-4-4
Optoelectronic life:	100.000 hrs min.
Options:	• Counting frequency up to 300 kHz • Line Driver 24/5V

MATERIALS

Flange:	AISI 410 stainless steel
Housing:	AISI 410 stainless steel
Bearings:	ABEC 5
Shaft:	AISI 303 stainless steel

ACCESSORIES

EPFL 121:	12 pin M23 mating connector
EC-C12F-LK-l8-x:	cordset x meter with M23 connector
MWSS, MSTs:	stainless steel flexible couplings



I58SK

Order code

I58SK	-	X (a)	-	XXXXX (b)	XXX (c)	X (d)	XX (e)	X (f)	X (g)	X (h)	XX (i)	/Sxxx (j)
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(a) OUTPUT CIRCUITS N = NPN o.c. Y = Push Pull L = Line Driver (RS422) H = PP/LD universal circuit V = 1 Vpp (sine/cosine) (b) RESOLUTION (PPR) See electrical specifications (c) OUTPUT SIGNALS / CONNECTIONS ZCU = ABO /ABO, cable output ZCZ = ABO /ABO, M23 12 pin plug	(d) SUPPLY VOLTAGE 1 = +5V±5% (L, V output circuit) 2 = +10V÷ +30V (N, P, Y output circuit) 4 = +5V÷ +30V (H output circuit) (e) SHAFT DIAMETER 6 = 6 mm 8 = 8 mm P9 = 9.52 mm - 3/8" 10 = 10 mm 12 = 12 mm	(f) CONNECTION POSITION - = axial (standard) R = radial (only with M23 connector) (g) COUNTING FREQUENCY - = 100 kHz standard W = 300 kHz (h) OPERATING TEMPERATURE - = -25°C +85°C (-13°F +185°F) standard K = -40°C +100°C (-40°F +212°F)	(i) CABLE LENGTH (not with ZCZ) L1 = cable output 1 m (standard) L2 = cable output 2 m Lx = cable output x m (j) CUSTOM VERSION
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