Incremental Shaft Encoders Type RI64

Industrial types

Hollow shaft

- Flexible hollow shaft design up to diameter 16 mm
- Through hollow shaft or as end shaft (blind shaft)
- Wide disk gap great tolerance for motor shaft axial runout
- Insulated hub prevent axial current through the shaft of large motor
- Max frequency response up to 300kHz
- Operation temperature -40...+100°C
- Wide power supply range 5-26VDC

CE

1000, **1024,** 2000, **2048, 4096**

Mounting	Tether with hollow shaft or Hub shaft
Shaft diameter	10 (only Hub shaft),12, 14, 15, 16 mm
Mating shaft runout	±0.2mm (includes shaft perpendicularity to mounting surface)
Mating shaft axial movement	±0.8mm max.
Outside Diameter	
Outside diameter	63mm (with cover)
Mounting depth	54mm
Max.mechnical RPM	6,000 min ⁻¹ (hollow shaft)
	12,000 min ⁻¹ (Hub shaft)
Enclosure rating	IP67/IP64
Operating temperature	-40+100°C
Storage temperature	-40+100°C
Vibration resistance	20 g = 200 m/s² (10 2000 Hz)
Shock resistance	200 g = 2000 m/s² (6 ms)
Material	
Bearing housing	Aluminium
Cover	Aluminium
Shaft	Hard coated aluminium (ceramic)
Weight	approx. 245g

Supply voltage	DC 5±10% or DC 5-26V
Output signal	TTL or HTL/PP compatible
Incremental siganl	A,B,Z and complimentary channels
Resolution	1000, 1024, 2000, 2048, 4096
Accuracy	±2.5 arc-mins.max. edge to any edge
A and B phasing	A lead B 90° cw (view from encoder side)
Index pulse width	180°gated with B low
Max.response frequency	300 kHz (data and index)



NUMBER OF PULSES

TECHNICAL DATA mechanical

TECHNICAL DATA electrical

Incremental Shaft Encoders Type RI64

Industrial types

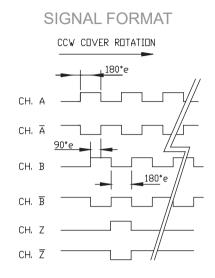
Hollow shaft

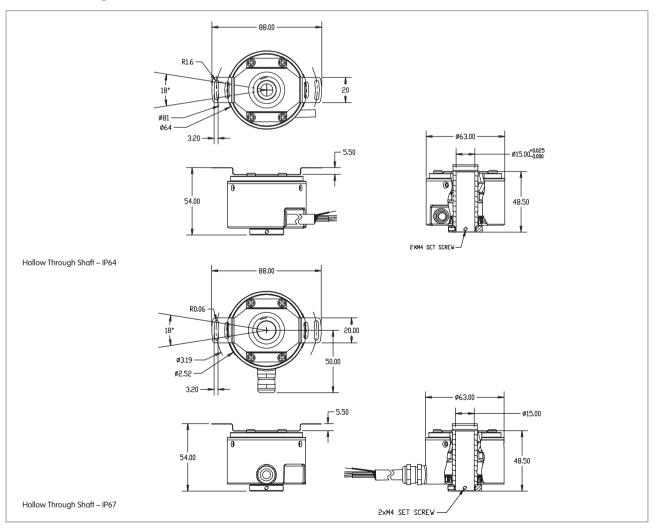
PIN ASSIGNMENT

COLOR	FUNCTON	M23 connector PIN
RED	VCC	12
BLK	GND	10
BLU	A	5
GRN	В	8
VIO	Z	3
BLU/BLK	Ā	6
GRN/BLK	B	1
VIO/BLK	Z	4
DRAIN	SHIELD	

DIMENSIONAL DRAWINGS

Hollow Through shaft





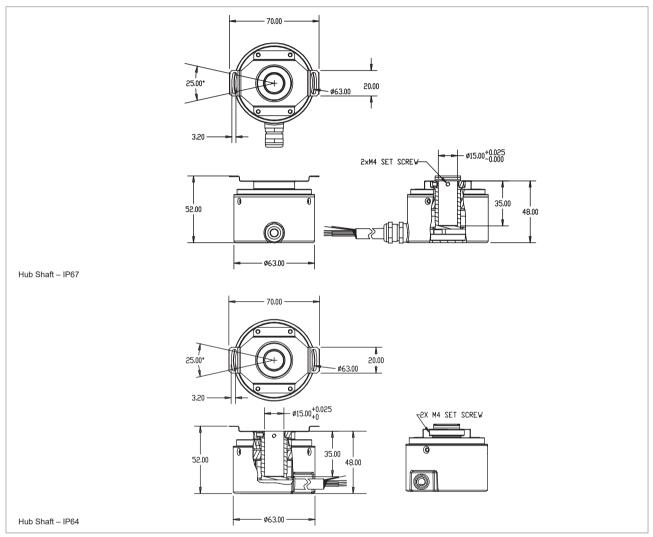
Incremental Shaft Encoders Type RI64

Industrial types

Hollow shaft

DIMENSIONAL DRAWINGS

Hub Shaft



ORDERING INFORMATION

Туре	No of pulses	Supply voltage	Tether	Protection			Shaft diameter		Output		Connection			Cable length (option)			Connector on end of cable (option) ³		Special version
RI64 /	1000 1024 2000 2048 4096	A 5 VDC B 5-26 VDC	V 63 W 81/64 O without	4 IP64 7 IP67	F	hubshaft with clampring frontside Hollow through shaft with clamping ring rearside	2 7 9 D G	10mm 12mm 14mm 15mm 16mm	T ¹ I ²	TTL (RS422) push-pull complementary	В	PVC cable radial	-	B5 D0 F0 K0 P0 U0 V0	1.5m (Standard length) 0.5m 3 m 5 m 10 m 15 m 20 m 25 m	-	O no connector I male M23 cw D male M23 ccw	-	

¹ Output T not with supply voltage B

² Output I not with supply voltage A

⁶ Mter cable connector options (M12; MIL 7pin; MIL 12 pin...) on request. ⁶ M23(Conin),12 pole, ccw, mating connector for connector I, ordering code 3 539 229 ⁵ M23(Conin),12 pole, cw, mating connector for connector D, ordering code 3 539 202

Example: RI64/2048BV.4H7IB-B5-O