

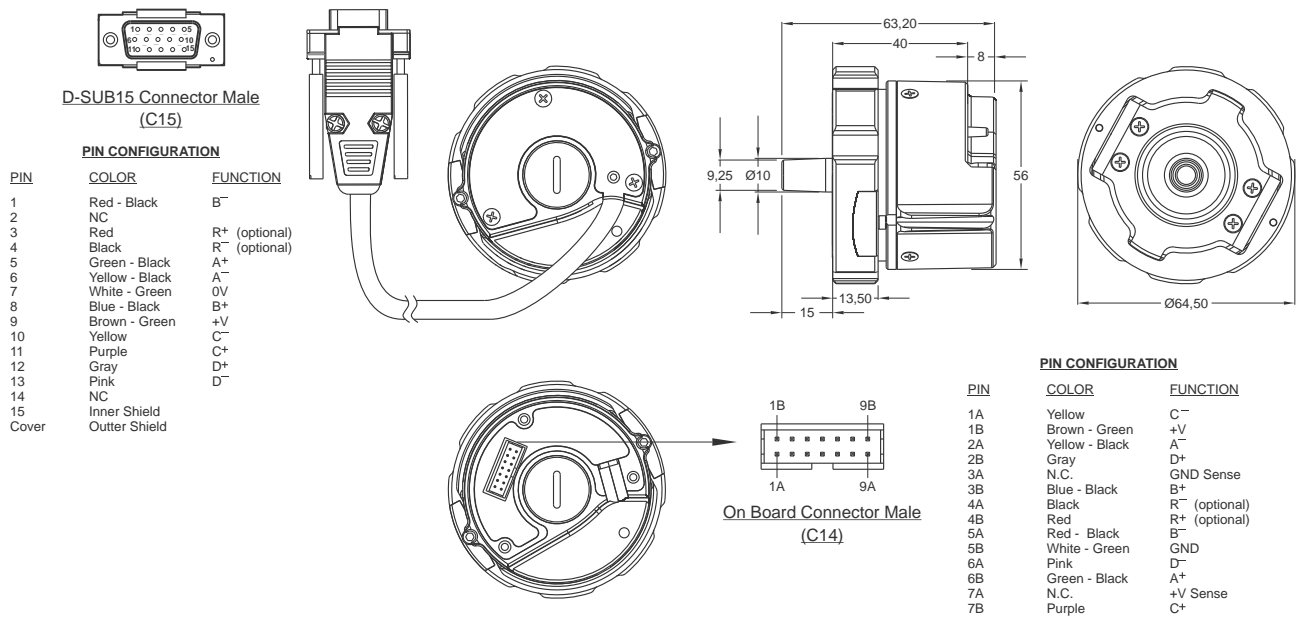
## Sine-Wave Encoder with Commutation Signals

- Feedback encoder for synchronous gearless motors
- Optical absolute encoder
- 1 Vpp/2048 ppr SinCos incremental signals (A,B)
- Additional 1 Vpp/1 ppr absolute commutation signals (C,D)
- User friendly installation
- Rigid shaft coupling



### Technical Specifications

Supply voltage	5 - 20 VDC ±%5
Current consumption (without load)	130 mA max. (without load)
Resolution	2048 ppr.
Output circuit	Analogue
Pulse frequency	< 200 kHz
Working principle	Optical
Accuracy	<2048 / ±40"
Incremental channels	A, A inv. B, B inv. / 2048 ppr. (sine 1 Vpp)
Absolute channels	C, C inv. D, D inv. / 1 ppr. (sine 1 Vpp)
Flange	Special motor feedback flange
Case diameter	Ø56 mm
Shaft diameter	cone 1/10
Shaft axial / radial loading	30 N max.
Starting torque	0,17 Ncm min.
Electrical connections	18 pin pcb type connector or DB15 connector with 20 cm cable
Weight	340 gr. (without cable)
Shock	100 g, 5 ms
Vibrations	10 g, 5-2000 Hz
Protection	IP47
Operating temperature range	-20°C +85°C
Storage temperature range	-20°C +85°C



Model	Case Diameter	Case Type	Shaft Diameter	Interface	Resolution	Output Channels	Supply Voltage	Connector / Cable
(example) PRA	56	ERC	10	SC	2048	VP	V1	0m5 C15
PRA	56mm	ERC	10	SC: sine / cosine	2048	VP: 1Vpp	V1: 5VDC	0m5 C15