

Orbis™

true absolute rotary encoder

OrbisTM is a true absolute rotary encoder suitable for applications where a typical OnAxis encoder cannot be mounted at the end of the rotating shaft due to space constraints or if hollow shaft is required.









Why choose

OrbisTM?

FEATURES:

- ✓ True absolute
- Multiturn counter option
- Resolution 14 bits
- Accuracy to ±0.25°
- High speed

BENEFITS:

- ✓ Wide installation tolerances
- ✓ Through-hole design
- ✓ Integrated status LED
- ✓ SSI, SPI, PWM, BiSS and async serial
- Self-calibration after assembly



ROBOTIC ARM



PAN/TILT



PRECISE



MEDICAL



MOTOR CONTROL

RLS merilna tehnika d.o.o.

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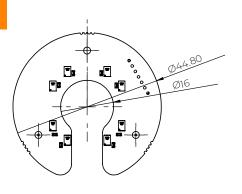
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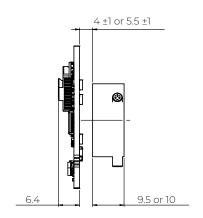
Orbis™ technical specifications

SYSTEM DATA			
Reading type	Axial reading		
Resolution	14 bit		
Maximum speed	10,000 RPM		
Accuracy	±0.25° (optimal ins	stallation) and up to ±0.1° after self-calibration	
ELECTRICAL DATA	LECTRICAL DATA		
Supply voltage	4.5 V to 5.5 V (at th	e connector)	
Current consumption	65 mA typical (no	output load)	
MECHANICAL DATA			
Available magnet sizes (inner diameter)	12 mm, 16 mm 6 mm, 8 mm, 10 mm, 12 mm, 15 mm 45 mm 16 mm		
Available magnet actuator (inner diameter)			
Readhead outer diameter			
Readhead inner diameter			
ENVIRONMENTAL DATA			
Temperature	Operating	0 °C to +85 °C	
(Not valid for cables with DSUB-9 connector)	Storage	-40 °C to +105 °C	

Orbis™ dimensions





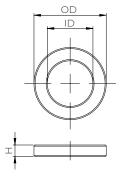


Permanent magnets

Available magnets:

ID	OD	Н		
12	19	3		
16	24	3.5		

ID and OD tolerances are ± 0.05 .

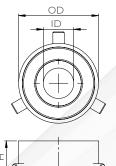


Magnetic actuators

Available actuators:

ID	OD	Н
6	21	9.5
8	21	9.5
10	22	9.5
12	27	10
14	27	10
15	27	10

ID tolerances are H7.



All dimensions in mm

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