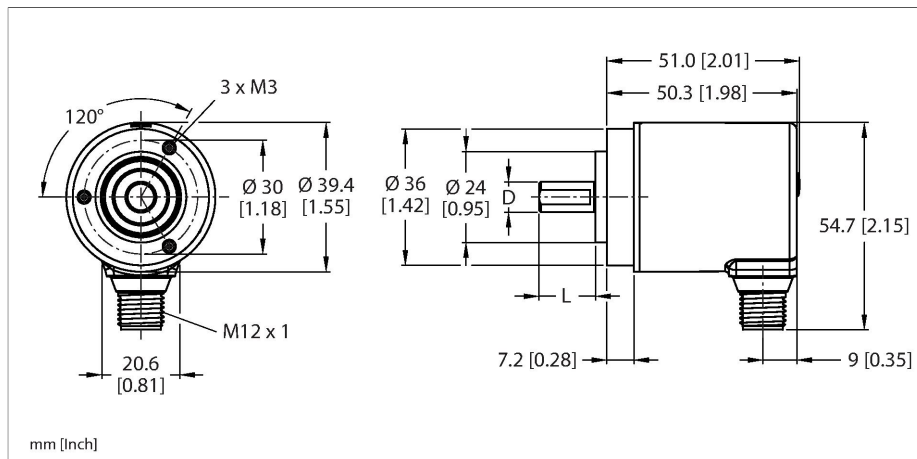


REM-190S6C-IOL32B-H1141

Absolute Rotary Encoder - Multiturn – IO-Link Industrial Line



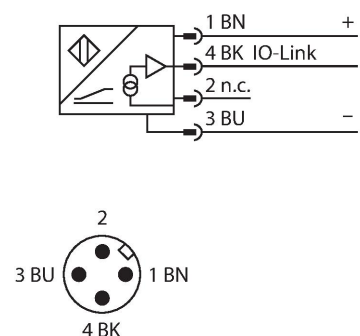
Technical data

Type	REM-190S6C-IOL32B-H1141
ID	100018235
Measuring principle	Magnetic
General data	
Max. rotational speed	4000 rpm
Starting torque	< 0.01 Nm
Repetition accuracy	± 0.2 °
Absolute accuracy	± 0.5 °
Output type	Absolute multiturn
Electrical data	
Operating voltage U _s	18...30 VDC
No-load current	≤ 40 mA
Short-circuit protection	yes
Wire break/reverse polarity protection	yes
Communication protocol	IO-Link
IO-Link	
IO-Link specification	V 1.1
Programming	FDT/DTM
Mechanical data	
Flange type	Clamping flange
Flange diameter	Ø 36 mm
Shaft Type	Solid shaft
Shaft diameter D (mm)	6
Shaft Length L [mm]	12.5
Shaft material	Stainless steel
Housing material	Die-cast zinc

Features

- Clamping flange, Ø 36 mm
- Solid shaft, Ø 6 mm × 12.5 mm
- Magnetic measuring principle
- Shaft material: stainless steel
- Protection class IP67 on housing and shaft side
- -40...+85 °C
- Max. 4000 rpm (continuous operation 2000 rpm)
- Energy harvesting technology
- 18...30 VDC
- M12 × 1 male connector, 4-pin
- Singleturn resolution 14 bit scalable, default 14 bit
- Multiturn resolution scalable only to 18 bits over total resolution, default 18 bits
- Total resolution 32 bit scalable, default 32 bit

Wiring diagram



Technical data

Electrical connection	Connector, M12 × 1
Axial shaft load	20 N
Radial shaft load	40 N
Environmental conditions	
Ambient temperature	-40...+85 °C
Vibration resistance (EN 60068-2-6)	300 m/s ² , 10...2000 Hz
Shock resistance (EN 60068-2-27)	2500 m/s ² , 6 ms
Protection class	IP67
Protection class shaft	IP67
MTTF	25 years

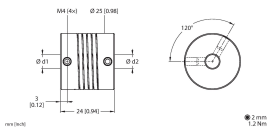
Accessories

RCS-15-08-06	1545361	Bellows coupling, outer diameter: 15 mm, bore diameter: 8 mm/6 mm	RCS-15-06-06	1545362	Bellows coupling, outer diameter: 15 mm, bore diameter: 6 mm/6 mm
RA-BC-20-06-06	100048777	Bellows coupling with aluminum hub Ø 20 mm; d1 = 6 mm, d2 = 6 mm	RA-BC-20-06-08	100048778	Bellows coupling with aluminum hub Ø 20 mm; d1 = 6 mm, d2 = 8 mm
RA-BC-20-06-10	100048779	Bellows coupling with aluminum hub Ø 20 mm; d1 = 6 mm, d2 = 10 mm	RA-BC-E-20-06-06	100048785	Stainless steel bellows coupling Ø 20 mm; d1 = 6 mm, d2 = 6 mm
RA-BC-E-20-06-10	100048786	Stainless steel bellows coupling Ø 20 mm; d1 = 6 mm, d2 = 10 mm	RA-SDC-30-06-10	100048791	Spring disc coupling Ø 30 mm; d1 = 6 mm, d2 = 10 mm
RA-SDC-30-06-06	100048790	Spring disc coupling Ø 30 mm; d1 = 6 mm, d2 = 6 mm	RA-HC-25-06-06	100048794	Aluminum helix coupling Ø 25 mm; d1 = 6 mm, d2 = 6 mm

RA-HC-25-06-10

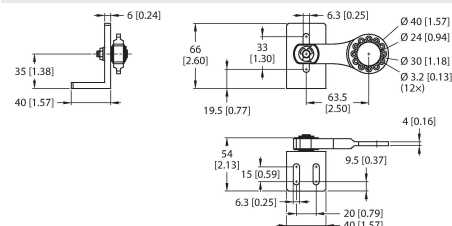
100048795

Aluminum helix coupling Ø 25 mm; d1 = 6 mm, d2 = 10 mm



Accessories

Dimension drawing	Type	ID	
	RA-MW-200-5.5-DK1-6	100038295	Aluminum measuring wheel (cross knurled) for encoders; circumference 0.2 m, width 5.5 mm, D = 6 mm
	RA-MW-200-6.5-PS1-6	100038296	Aluminum measuring wheel (smooth PU) for encoders; circumference 0.2 m, width 6.5 mm, D = 6 mm
	RA-MW-200-5.5-OR1-6	100038298	Aluminum measuring wheel (O-ring) for encoders; circumference 0.2 m, width 5.5 mm, D = 6 mm
	RA-MW-B0-5.5-DK1-6	100038299	Aluminum measuring wheel (cross knurled) for encoders; circumference 6", width 5.5 mm, D = 6 mm
	RA-MW-B0-6.5-PS1-6	100038300	Aluminum measuring wheel (smooth PU) for encoders; circumference 6", width 6.5 mm, D = 6 mm
	RA-MW-B0-5.5-OR1-6	100038301	Aluminum measuring wheel (O-ring) for encoders; circumference 6", width 5.5 mm, D = 6 mm

Dimension drawing	Type	ID	
 mm [inch]	RA-SAB-5-24	100038293	Spring arm for small absolute encoders with a 36-mm flange; recommended contact pressure 5 N; maximum contact pressure 20 N