

REI-05IA0E-2H2500-H1181
Incremental Encoder
Industrial Line



Technical data

Type	REI-05IA0E-2H2500-H1181
ID	100011200
Measuring principle	Optical
General data	
Max. Rotational Speed	6000 rpm
Moment of inertia of the rotor	0.2 × 10 ⁻⁵ kgm ²
Starting torque	< 0.05 Nm
Output type	Incremental
Resolution incremental	2500 ppr
Electrical data	
Operating voltage U _B	8...30 VDC
No-load current	≤ 40 mA
Output current	≤ 50 mA
Short-circuit protection	yes
Pulse frequency max.	200 kHz
Signal level high	min. U _B - 3 V
Signal level low	max. 0.5 V
Output function	Push-Pull/HTL, invertable
Mechanical data	
Flange type	Flange with stator coupling
Flange diameter	Ø 46 mm
Shaft Type	Blind hole shaft
Shaft diameter D (mm)	6.35
Shaft diameter D	0.25 in
	Hollow shaft
Shaft material	Brass

Features

- Flange with stator coupling, Ø 46 mm
- Hollow shaft, Ø ¼"
- Optical measuring principle
- Shaft material: brass
- Protection class shaft IP50
- Protection class housing IP65
- -20...+85 °C
- Max. 6000 rpm
- 8...30 VDC
- Push-pull/HTL invertible
- Pulse frequency max. 200 kHz
- M12 × 1 male connector, 8-pin
- 2500 pulses per revolution

Wiring diagram



Technical data

Housing material	Aluminum chromated
Electrical connection	Connector, M12 × 1
	8-polig
Axial shaft load	20 N
Radial shaft load	40 N
Environmental conditions	
Ambient temperature	-20...+85 °C
Vibration resistance (EN 60068-2-6)	100 m/s², 55...2000 Hz
Shock resistance (EN 60068-2-27)	1000 m/s², 6 ms
Protection class	IP65
Protection class shaft	IP50

Accessories

RME-31544614



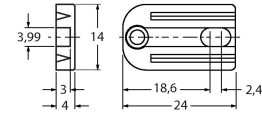
Stainless steel stator coupling for hollow shaft encoders, reference diameter 46 mm, for highly dynamic applications with axial and radial play

RME-131544624



Plastic mounting element for hollow shaft encoders, pitch diameter 42 mm, for applications with limited axial play, low dynamics and limited mounting space

RME-141544625



Plastic mounting element for hollow shaft encoders, pitch diameters 44 mm, 60 mm, 63 mm, 65 mm, for low dynamic applications with high axial play.

Accessories

Dimension drawingTypeID

RKC8T-2/TXL6625142

Connection cable, M12 female connector, straight, 8-pin, cable length: 2 m, jacket material: PUR, black; cULus approval



Dimension drawing	Type	ID	
	WKC8T-2/TXL	6625145	Connection cable, M12 female connector, angled, 8-pin, cable length: 2 m, jacket material: PUR, black; cULus approval