

OEK-4™



Optical Encoder Kit

- Incremental Encoder 250 PPR
- Double Measuring Wheels
- Rotatable Support with Springs
- Standard M12 connector

APPLICATIONS

- Conveyor speed control
- Linear measurement
- Object positioning
- Stop or cut to length

ELECTRICAL SPECIFICATIONS		
Supply voltage		5-30 Vdc
Supply current		70 mA max. (no load)
Output voltage		High \bar{V} supply voltage – 2.5 Vdc / Low \bar{V} 1.5 Vdc max.
Output current		40 mA max.
Output circuit		NPN PNP Push-pull and Line Driver
Output signal		Single channel A
Output waveform		50/50 square wave with reduced jitter effect
Protection		ESD, reverse voltage and short circuit
Resolution	Vdc	250 pulses per revolution, 1.27mm (0.05") linear resolution
	PNP	6000 rpm max.
Rotation speed	Counting freq.	100 kHz max.
	cable	According to EN61000-4-2 and EN61000-4-4
EMC rating	Light source	Ga-Al diodes (Life > 100000 hrs)
	Connection	M12 4-poles

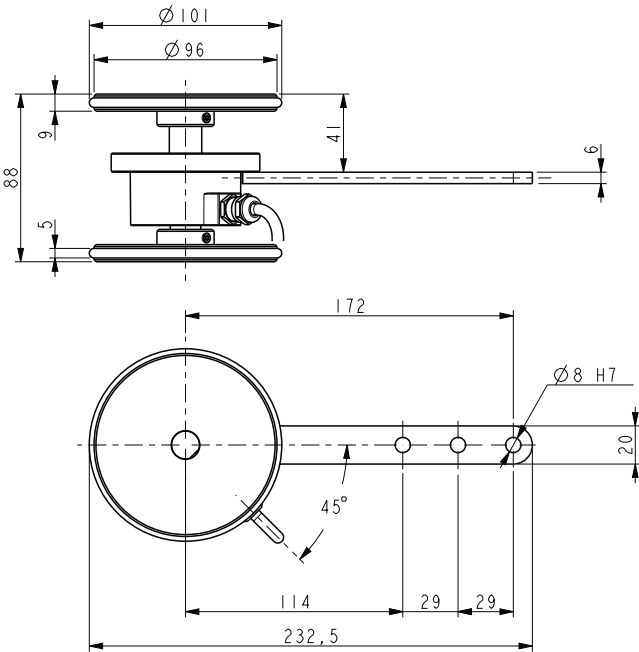
MODEL SELECTION		
DESCRIPTION	MODEL	ORDER No.
Encoder Kit PNP 250PPR M12 + Spring	OEK-4	95B081810

ACCESSORY CABLES		
DESCRIPTION	MODEL	ORDER No.
M12 connector with 3m shielded cable	CV-A1-22-B-03	95ACC1480
M12 connector with 5m shielded cable	CV-A1-22-B-05	95ACC1490
M12 connector with 10m shielded cable	CV-A1-22-B-10	95ACC1500
M12 connector with 15m shielded cable	CV-A1-22-B-15	95ACC2070
M12 connector with 25m shielded cable	CV-A1-22-B-25	95ACC2090

Note: Accessory cables must be ordered separately

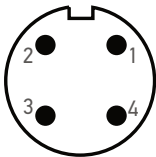
MECHANICAL AND ENVIRONMENTAL SPECIFICATIONS	
Kit weight	1 kg
Bearing load	100 N max.
Bearing type	109 min.
Bearing material	ABEC 5
Case material	Zamak die cast
Shaft material	Stainless steel non-magnetic UNI EN 4305
Support material	Aluminium anticorodal UNI EN AW-6082, anodized
Wheel material	Aluminium anticorodal UNI EN AW-6082 with rubber O-ring
Wheel dimension	Ø 101mm, circumference 317.34mm (O-ring included)
Encoder IP rating	IP64
Temperature	-25° to +85°C (operating/storage) 98% rH non condensing

MECHANICAL DIMENSIONS



ELECTRICAL CONNECTIONS

M12 4-poles male connector
(encoder side view)



- Pin 1 – brown wire: +5÷30Vdc
- Pin 2 – not connected
- Pin 3 – blue wire: 0Vdc
- Pin 4 – black wire: Output A