

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 □ supply voltage – 2.5 Vdc / Low □ 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
Rotation speed	PNP	6000 rpm max.
	Counting freq.	100 kHz max.
EMC rating	cable	According to EN61000-4-2 and EN61000-4-4
	Light source	Ga-Al diodes (Life > 100000 hrs)
Connection	M12 4-poles	

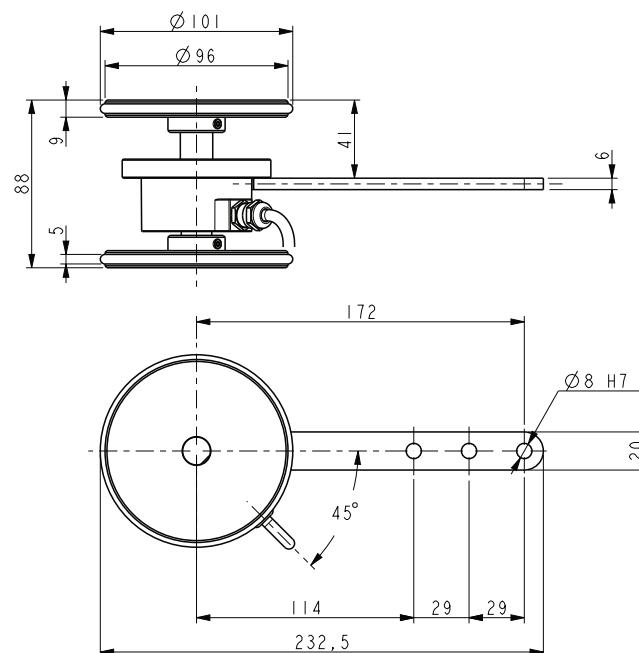
MODEL SELECTION		
DESCRIPTION	MODEL	ORDER No.
Encoder Kit PNP 250PPR M12 + Spring	OEK-4	95B081810

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

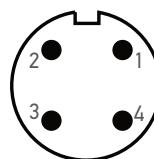
MECHANICAL AND ENVIRONMENTAL SPECIFICATIONS	
Kit weight	1 kg
Bearing load	100 N max.
Bearing type	109 min.
Bearing material	ABEC 5
Case material	Zamak die cast
Shaft material	Stainless steel non-magnetic UNI EN 4305
Support material	Aluminium anticorodal UNI EN AW-6082, anodized
Wheel material	Aluminium 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