

# 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



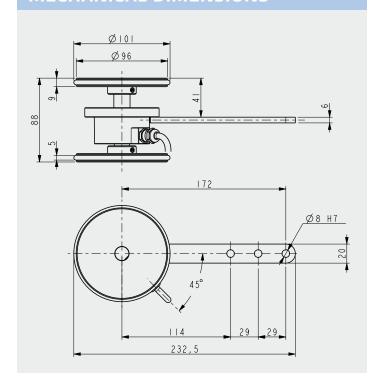
Electrical Specifications			
Supply voltage		5–30 Vdc	
Supply current		70 mA max. (no load)	
Output voltage		High supply voltage – 2.5 Vdc / Low 1.5 Vdc max.	
Output current		40 mA max.	
Output circuit		NPN PNP Push-pull and Line Driver	
Output signal		Single channel A	
Output waveform		50/50 square 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	



# **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: OVdc

Pin 4 - black wire: Output A

### **MODELS AND ACCESSORIES**

MODEL	DESCRIPTION	ORDER No.		
OEK-4	Encoder Kit PNP 250PPR M12 +Spring	95B081810		
ACCESSORY CABLES				
CV-A1-22-B-03	M12 connector with 3m shielded cable	95ACC1480		
CV-A1-22-B-05	M12 connector with 5m shielded cable	95ACC1490		
CV-A1-22-B-10	M12 connector with 10m shielded cable	95ACC1500		
CV-A1-22-B-15	M12 connector with 15m shielded cable	95ACC2070		
CV-A1-22-B-25	M12 connector with 25m shielded cable	95ACC2090		

Note: Accessory cables must be ordered separately

Rev. 00, 09/2014