



α E40 / E41



Description

- Incremental encoders with or without zero pulse
- Pulses/revolution range: 5 to 10000
- Different configurations available
- Accurate, reliable, strong

Mechanical versions

Series E40/E41	Series E40A/E41A	Series E40V/E41V	Series E40M/E41M
Body Ø 40 mm Round	Body Ø 40 mm	Body Ø 40 mm	Body Ø 40 mm
flange Shaft Ø 6 or 4 mm	Round flange, 4 holes on Ø 25.4 mm Shaft Ø 6 or 4 mm	Round flange with screw fixing M18x1 Shaft Ø 6 or 4 mm	Hollow shaft Ø 6 or 4 mm

ABS plastic case – Connections outlet: axial or radial cable outlet

Metal case - Connections outlet: radial IP65 cablepress (X. version)

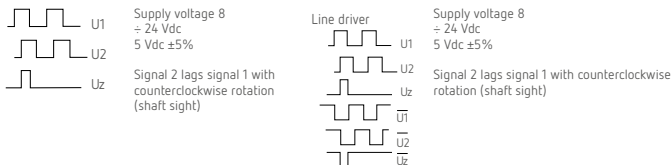
Mechanical environmental specifications

	E40/E41	E40A/E41A	E40V/E41V	E40M/E41M
Materials: case	ABS / aluminium (version X.)			
shaft	Steel AISI 303			
Weight	95 g ca.			
Shaft diameter	4 or 6 mm			
Revolutions/minute	6000			
Starting torque	0,2 Ncm			
Inertia	5 g cm ²			
Max load	10N axial/20N radial			
Vibration resistance (10÷2000 Hz)	10 G			
Shock resistance (11 ms)	30 G			
Protection degree	IP54 (optional IP65 with metal case and cable press)			
Operating temperature	-10 ÷ 60°C			
Stocking temperature	-20 ÷ 80°C			

Electrical & operating specifications

Pulse/code	Incremental
Number of ppr	5 ÷ 10000
Zero pulse	1 pulse per revolution
Output signals	Two square waves 90° ±15° out of phase – Zero pulse width: 90°±15°
Electronic output signals	push-pull, NPN open collector, 5Vdc or 8/24Vdc line driver signals protected against short circuits
Supply	5Vdc or 8/24Vdc - protection against polarity reversal
Power consumption	40 mA max
Max frequency	100/150 KHz
Connection type	Axial or radial cable Optional: radial cablepress, 5-pin Lumberg or 9-pin Connei axial connector

Electronic signals



Connections

PUSH/PULL – OPEN COLLECTOR NPN OUTPUT		LINE DRIVER OUTPUT White	
Signal 10		White	Signal 1 Green
Signal 2		Green	Signal 2
Yellow	0 Signal (E41/E41A/E41M/E41V) + Vdc	Grey	0 Signal (E41/E41A/E41M/E41V) Red
Blue	0 V	Red	+ Vdc
Shield	Ground	Blue	0 V
		Brown	Signal 1*
		Yellow	Signal 2*
		Pink	0* Signal (E41/E41A/E41M/E41V)
		Shield	Ground

Ordering information

E40	100	824	6	PP
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ELECTRONIC OUTPUT PP
 Push-pull
 OC Open Collector NPN LD
 Line-driver

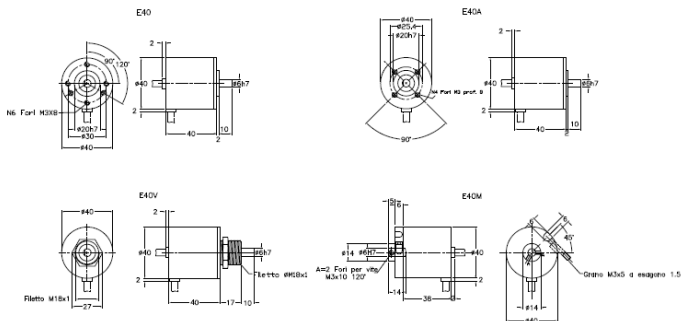
SHAFT DIAMETER/JOINT HOLE 6
 mm
 4 mm

SUPPLY VOLTAGE
 8/24 Vdc
 5 Vdc

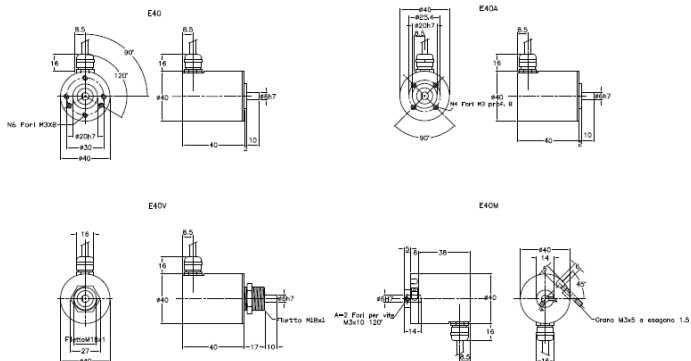
PPR NO.
 5 ÷ 10000

TYPE
 E40/E41
 E40A/E41A
 E40V/E41V
 E40M/E41M

Dimensions



Version X27 with metal case and IP65 cablepress



The information provided herein is to the best of our knowledge true and accurate, it is provided for guidance only. All specifications are subject to change without prior notification.

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