



High speed incremental encoder which measures and converts mechanical rotations into scaled electrical signals, suitable for motion control systems to detect position and speed. It is used in a variety of industrial sectors.

FEATURES

- Based on magnetic sensing method.
- Extremely compact and light, it is designed for easy assembly and wiring.
- IP protection degree: Ermes is classified IP 42
- Extreme temperature resistance: from -25°C to +85°C.
- Aluminum enclosure and high quality materials and components guarantee maximum mechanical life, precision and repeatability even in extreme conditions.

OPTIONS

- Totally immune to interference in compliance with standard DIN EN 61000-6-2.
- Featuring protection against input/output over-current and over-voltage and against reverse polarity.
- Fitted with 6 or 10 mm diameter shaft.
- Suitable for assembly on limit switches to control multi-revolution rotors.

CERTIFICATIONS

- CE marking.

Fill in the "request form" to configure properly the product.

CERTIFICATIONS

Conformity to Community Directives	2014/35/UE Low Voltage Directive (LVD)
	2014/30/UE Electromagnetic Compatibility (EMC) Directive
	2006/42/CE Machinery Directive
Conformity to CE Standards	EN 60204-1 Safety of machinery - Electrical equipment of machines
	EN 60529 Degrees of protection provided by enclosures
	EN 61326-1 Electrical equipment for measurement, control and laboratory use - EMC requirements - General requirements
	EN 61326-2-3 Electrical equipment for measurement, control and laboratory use - EMC requirements - Particular requirements - Test configurations, operational conditions and performance criteria for transducers with integrated or remote signal conditioning
	EN 61326-3-1 Electrical equipment for measurement, control and laboratory use - EMC requirements – Immunity requirements for safety-related systems and for equipment intended to perform safety-related functions (functional safety) – General industrial applications
Markings and homologations	CE

GENERAL TECHNICAL SPECIFICATIONS

Ambient temperature	Storage -25°C/+80°C
	Operational -25°C/+80°C
IP protection degree	IP 42
Maximum rotation speed	15000 rpm
Shaft diameter	6 mm
	10 mm
Connections	Cable

ELECTRICAL SPECIFICATIONS

Power supply	10...30 Vdc
Consumption	25 mA (24 Vdc, without load)
Pulses per revolution	10...1024
Revolution reference signal	Zero pulse, width 90°
Sensing method	Magnetic
Output signals	A 90° B, Z + inverted
Output stages	Linedriver/RS422
	Push-pull short-circuit proof
Output interface	5 VDC/5V (TTL compatible) normal output
	5 VDC/5V (TTL compatible) complementary output
	10...30 VDC/push-pull short-circuit proof normal output
	10...30 VDC/push-pull short-circuit proof complementary output
	10...30 VDC/5V normal output
	10...30 VDC/5V complementary output

NUMBER OF PULSES/REVOLUTION

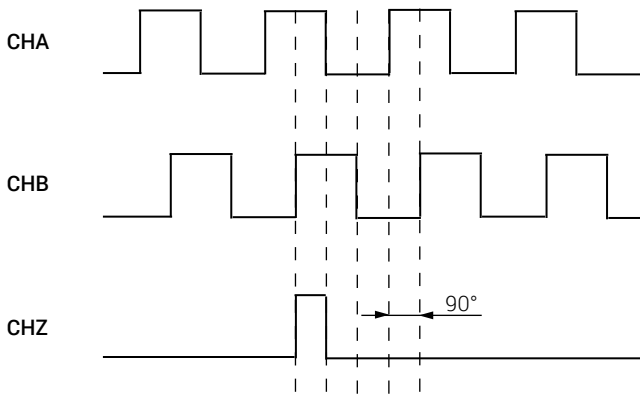
10	36	100	256	360	512	750	1024
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TRIGGER LEVEL

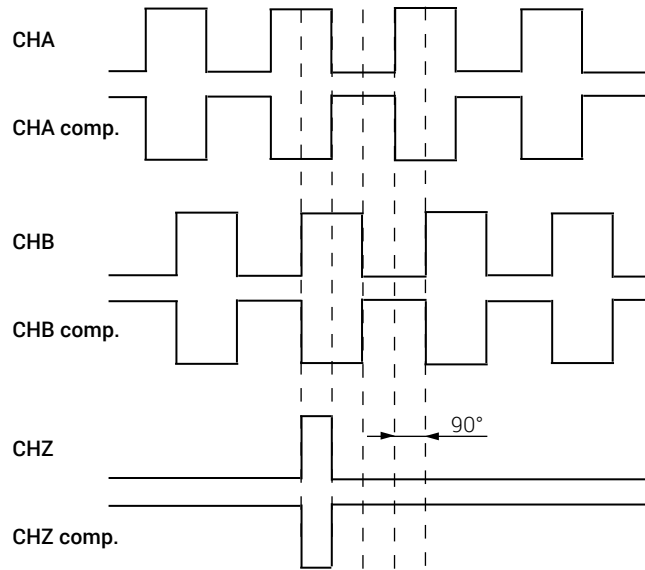
Outputs	5 VDC/5V (TTL compatible) normal/ complementary output 10..30 VDC/5V normal/complementary output	10..30 VDC/push-pull short-circuit proof normal/ complementary output
Output level High	>2.4 V (I = -20 mA)	>+Vs - 0.7 V (I = 30 mA)
Output level Low	<0.4 V (I = 20 mA)	<0.7 V (I = 30 mA)
Load High	<20 mA	<30 mA
Load Low	<20 mA	<30 mA

OUTPUT SIGNALS

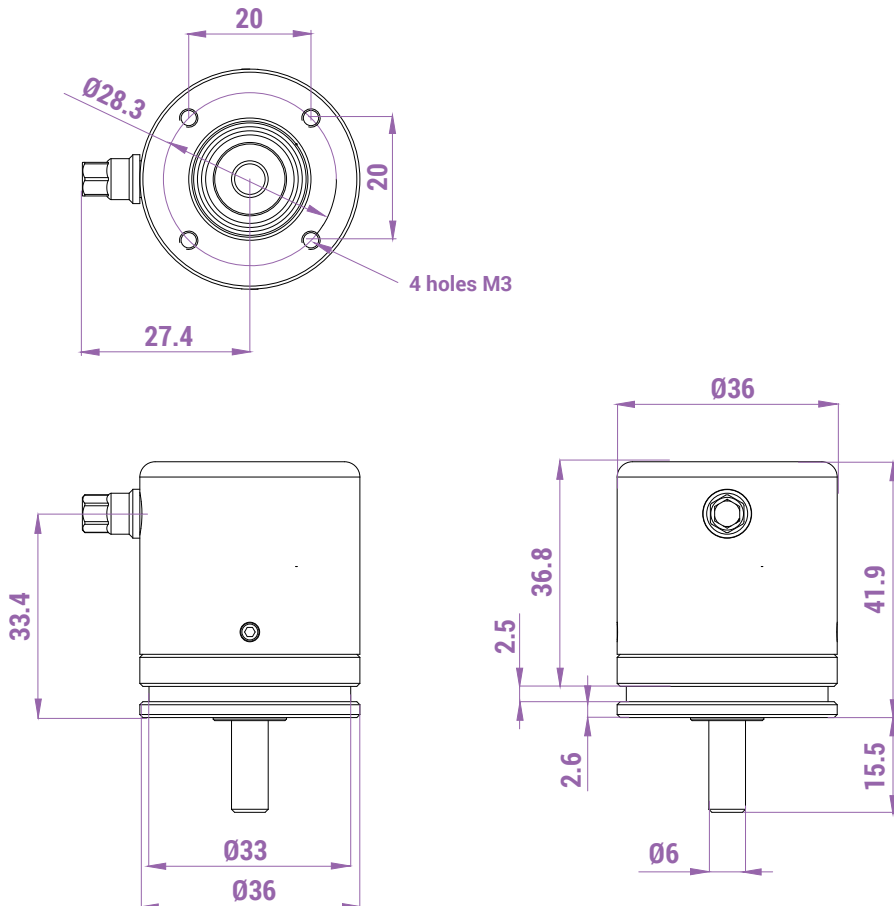
Normal output



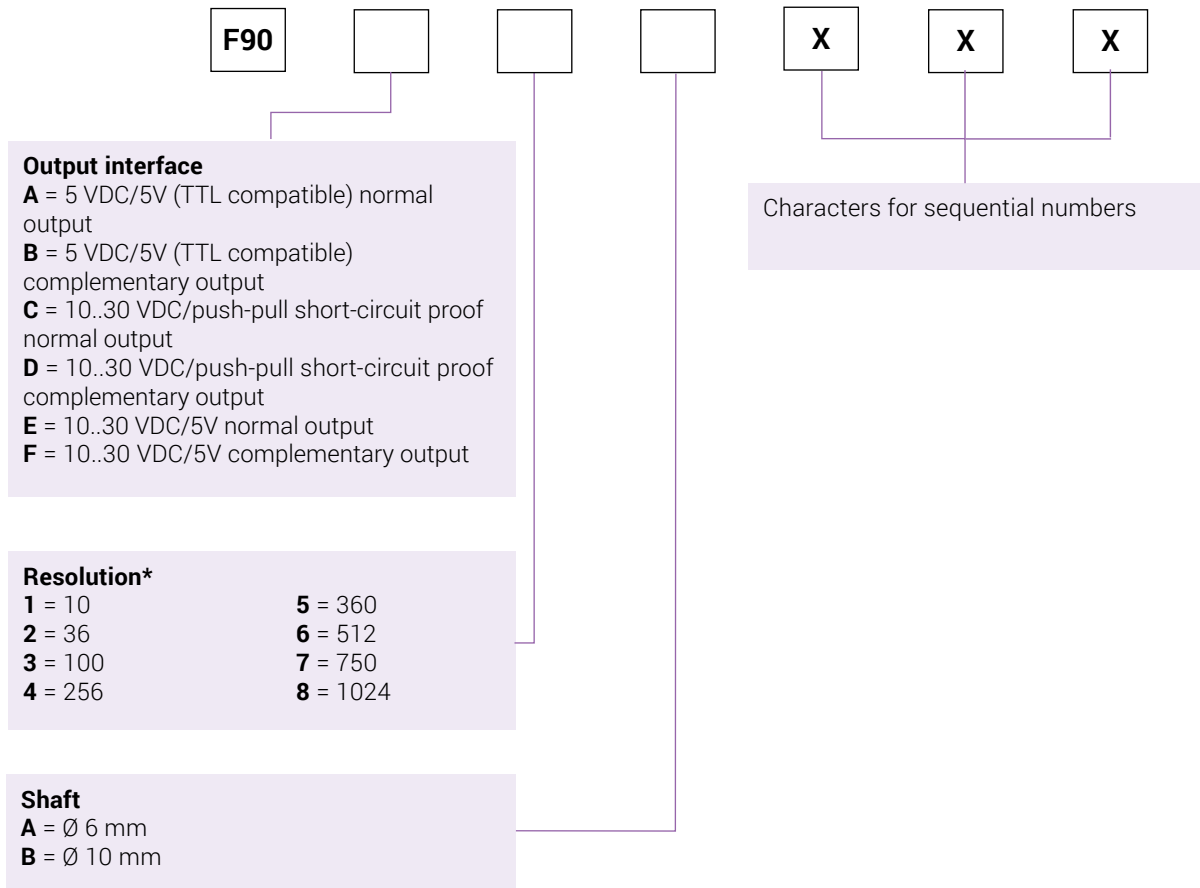
Complementary output



OVERALL DIMENSIONS (mm)



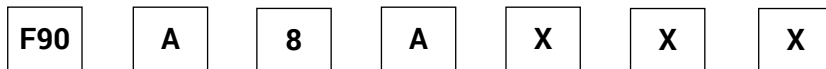
ERMES - REQUEST FORM FOR INCREMENTAL ENCODER HS



* To request customized resolutions, please contact the sales department (+39 0399911011 - info@ter.it).

Instructions

Fill in the boxes with the numbers/letters corresponding to the specifications required, thus obtaining the encoder code, as shown in the example below.



The encoder is supplied with 1 m cable.

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