

INCREMENTAL ENCODER EV28

ARTICLE PROPERTIES

TYPE	Incremental encoder
SIZE	Ø 28

TECHNICAL DATA

SHAFT DIAMETER	Ø 4 / Ø 5g6 mm	STARTING TORQUE	< 0.01 N·m
SPEED	6000 rpm, continuous	BODY MATERIAL	Aluminum
BEARING LIFE	10 ⁹ revolution	HOUSING MATERIAL	Aluminum
MOMENT OF INERTIA	0.7 x 10 ⁻⁶	WEIGHT	100 g

ENVIRONMENTAL CONDITIONS

PROTECTION CLASS	IP50	OPERATING TEMPERATURE	-20 ... +80 °C
MAX LOAD CAPACITY OF THE SHAFT	5 N axial, 10 N radial	STORAGE TEMPERATURE	-30 ... +85 °C
SHOCK RESISTANCE (EN 60068-2-27)	30 g, 11 ms	RELATIVE HUMIDITY / CONDENSATION	90%, condensation not permitted
VIBRATION RESISTANCE (EN 60068-2-6)	6 g, 10 ... 2000 Hz		

STANDARDS AND DIRECTIVES

LOW-VOLTAGE SWITCHGEAR AND CONTROLGEAR	EN IEC 61000-6-2 EN IEC 61000-6-4
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APPROVALS



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ELECTRICAL PARAMETERS

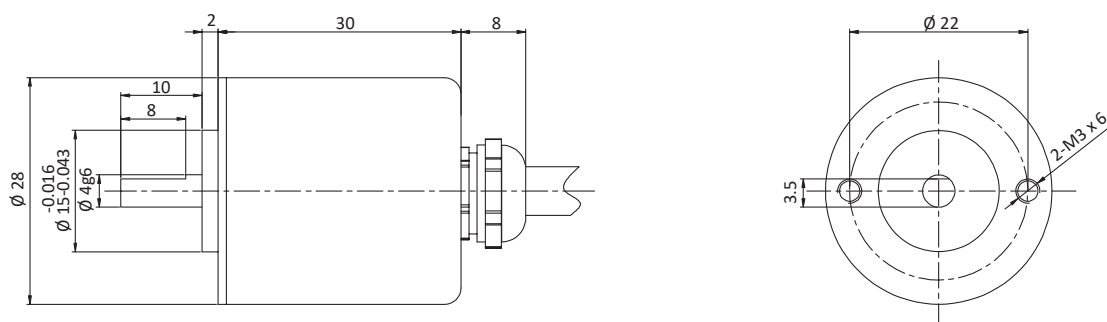
Output circuit	Push-pull	RS422	RS422
Resolution	Max. 600 ppr	Max. 600 ppr	Max. 600 ppr
Supply voltage	10 ... 30 V DC	5 V DC	10 ... 30 V DC
Power consumption (no load)	≤ 100 mA	≤ 80 mA	≤ 80 mA
Permissible load (channel)	±30 mA	±50 mA	±50 mA
Pulse frequency	Max. 300 kHz	Max. 300 kHz	Max. 300 kHz
Signal level high	Min. $U_b - 1.5$ V	Min. 3.4 V	Min. 3.4 V
Signal level low	Max. 0.8 V	Max. 0.4 V	Max. 0.4 V
Rise time Tr	Max. 1 μs	Max. 200 ns	Max. 200 ns
Fall time Tr	Max. 1 μs	Max. 200 ns	Max. 200 ns

TERMINAL ASSIGNMENT

Signal	0 V	+U _B	A	\bar{A}	B	\bar{B}	Z	\bar{Z}	Shield
Color	WH	BN	GN	YE	GY	PK	BU	RD	⊥

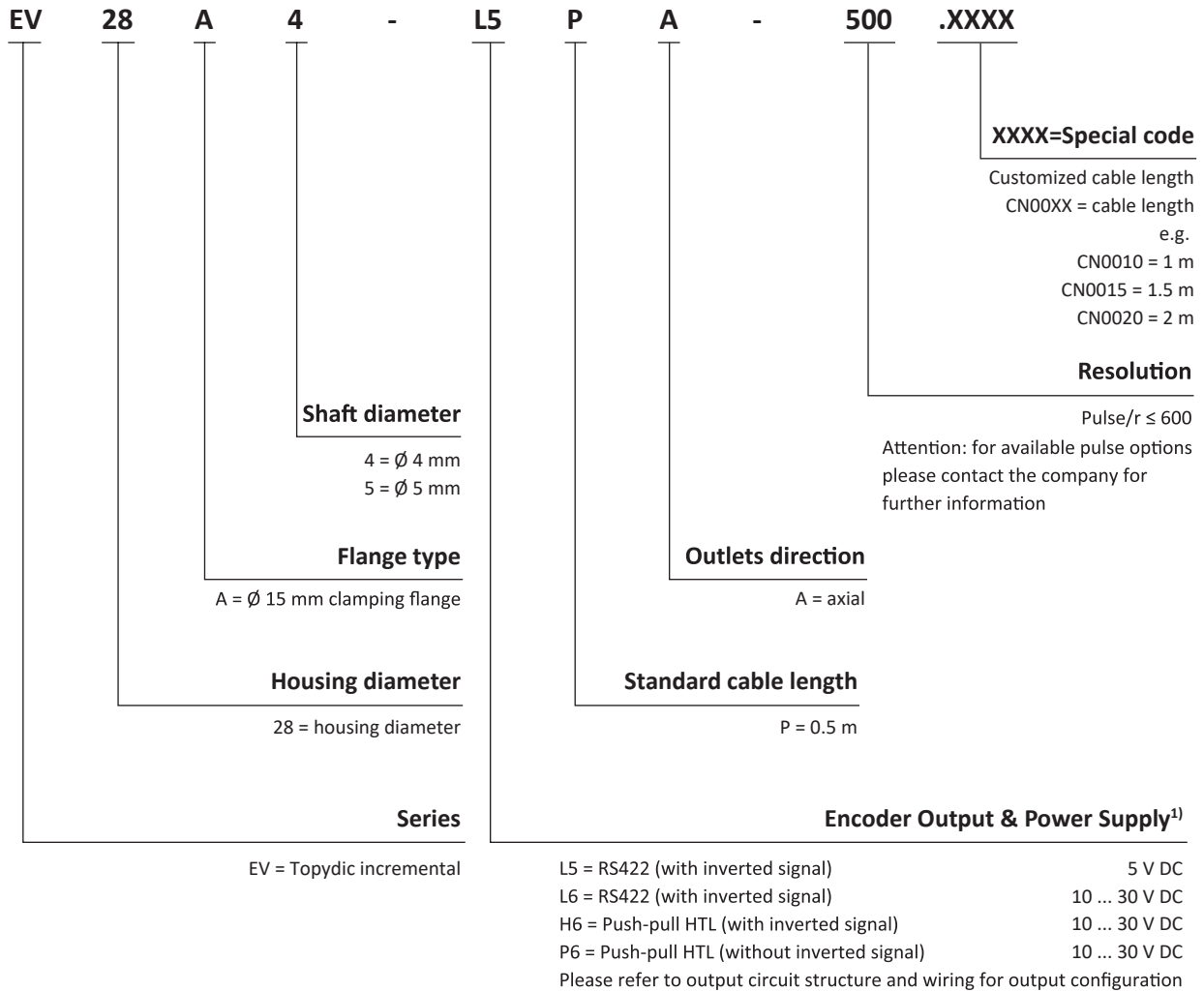
DIMENSIONS (mm)

EV28



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ORDER CODE



¹⁾When Ub = 5 V, short-circuit to channel, 0 V, or + Ub is permitted;
When Ub is greater than 5 V, short-circuit to channel or 0 V is permitted.

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SALES AND SERVICE

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