

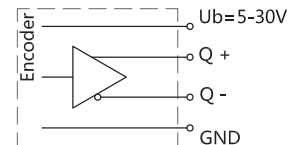
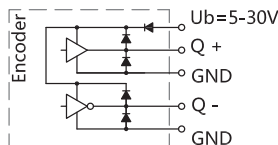
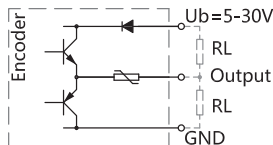


EXDE68B Series
Sensing method Optical
Explosion proof mark Ex d II C T5/T6 Gb Ex tD A21 IP66 T95°C/T80°C
Housing size $\Phi 68\text{mm}$
Hollow shaft $\Phi 10$ 、 $\Phi 12\text{mm}$
Max. resolution 1200PPR
Supply voltage 5-30VDC
Protection IP66

Mechanical characteristics

Shaft diameter (mm)	$\Phi 10$ 、 $\Phi 12\text{mm}$
Protection	DIN EN 60529 IP66
Speed	3000r/min
Maximum shaft load	Max. 50N Axial; max. 80N Radial
Shock resistance	$\leq 100\text{g}$ 6ms DIN EN 60068-2-27
Vibration resistance	10g 10...2000HZ DIN EN 60068-2-6
Bearing life	10^9 turns
Rotor moment of inertia	$\approx 1.8 \times 10^{-6} \text{kgm}^2$
Starting torque	$< 0.1\text{Nm}$
Materials	Anodic oxidation of aluminum alloy
Spindle materials	Stainless steel
The shell material	Anodic oxidation of aluminum alloy
Working temperature	$-40 \text{C} \dots +85 \text{C}$
Storage temperature	$-40 \text{C} \dots +85 \text{C}$
Weight	480g (2m cable)

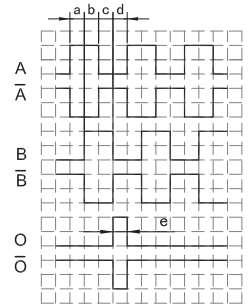
Electrical characteristics



Output circuit	Push-pull output	Push-Pull Differential	RS422 (TTL)
Pulse rate	Max. 1200P/R	Max. 1200P/R	Max. 1200P/R
Supply voltage	5-30V	5-30V	5-30V
Power consumption(no load)	Max. 80 mA	Max.125mA	Max.80 mA
Permissible load/channel	$\pm 30 \text{ mA}$	$\pm 80 \text{ mA}$	$\pm 30 \text{ mA}$
Pulse frequency	100KHz	100KHz	100KHz
Signal level high	Min. $U_b - 2.5\text{V}$	Min. $U_b - 2.5\text{V}$	Min. 2.5V
Signal level low	Max. 0.8V	Max. 0.8V	Max. 0.4V
Rise time T_r	Max. $1\mu\text{s}$	Max. $1\mu\text{s}$	Max. $1\mu\text{s}$
Fall time T_f	Max. $1\mu\text{s}$	Max. $1\mu\text{s}$	Max. $1\mu\text{s}$
Short circuit proof outputs	Yes	Yes	Yes

Terminal assignment

Signal		0V	+Ub	A	\bar{A}	B	\bar{B}	O	\bar{O}	
Cable Colour		WH	BN	GN	PK	YE	BU	GY	RD	Shield



Shaft turning clockwise,
top-view of clamping ring.
a, b, c, d = $T/4 \pm T/8$
e = $T/4 \pm T/8$

Note: Positional relationship of O channel and A&B channels is not specified.

Ordering information

EXDE68B	12	E	1024	A	5-30	R	2
	①	②	③	④	⑤	⑥	⑦

① Shaft diameter

10: $\Phi 10\text{mm}$

12: $\Phi 12\text{mm}$

② Output channel

B: A B

D: A \bar{A} B \bar{B}

E: A \bar{A} B \bar{B} O \bar{O}

③ Resolution

200, 256, 300

360, 400, 500

512, **600**, **1000**

1024, 1200

④ Output type

F: Push-Pull

A: Push-Pull Differential

B: RS422 (TTL Compatible)

⑤ Supply voltage

5-30: DC5...30V

⑥ Exit position

R: Radial

⑦ Cable length

Cable length 2m

Note: Printed in bold=standard items

1, The resolution list is the number of common pulses, other pulse values should be determined by request.

2, Please chose the ordering information: Extended No., Shaft diameter, Channels, Pulse rate, Output circuit, Supply voltage, Exit position, Connection type and Special code.

Ordering example: EXDE68B12E1024A5-30R2, Special requirements please indicate to the back.

Explanation: EXDE68B Series, Shaft diameter 12mm, Output channels A \bar{A} B \bar{B} O \bar{O} , 1024PPR, Push-Pull Differential, 5-30VDC, Radial Output 2m.

Accessories (sold separately) Note: Further stator coupling can be found in the accessories selection table.

Mounting bracket

Model (common) : 8127A



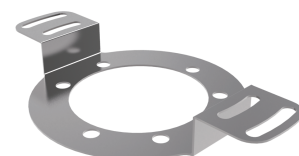
Mounting bracket

Model (common) : 8135



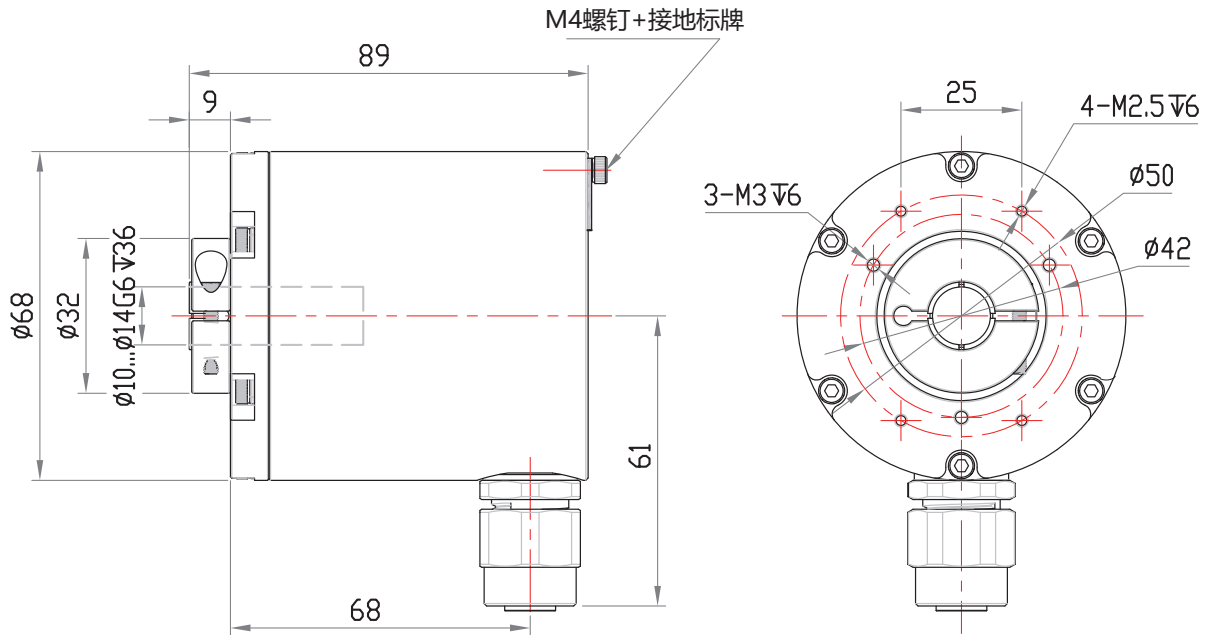
Mounting bracket

Model (common) : 8138A

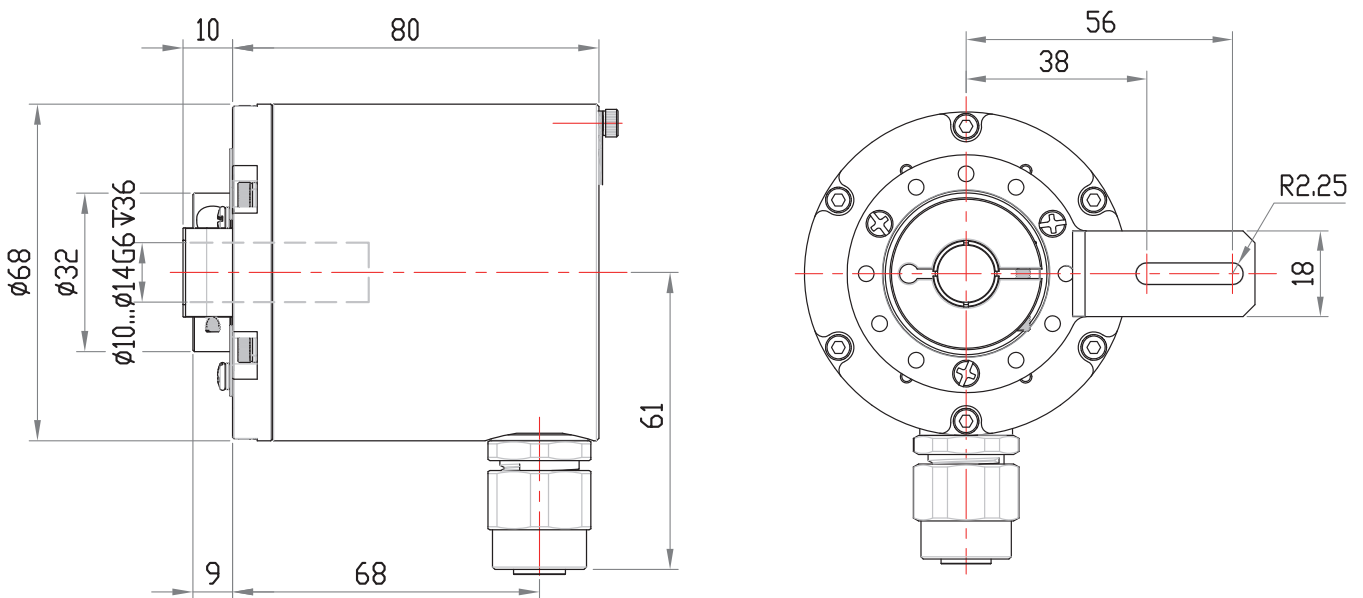


Dimensions

EXDE68B

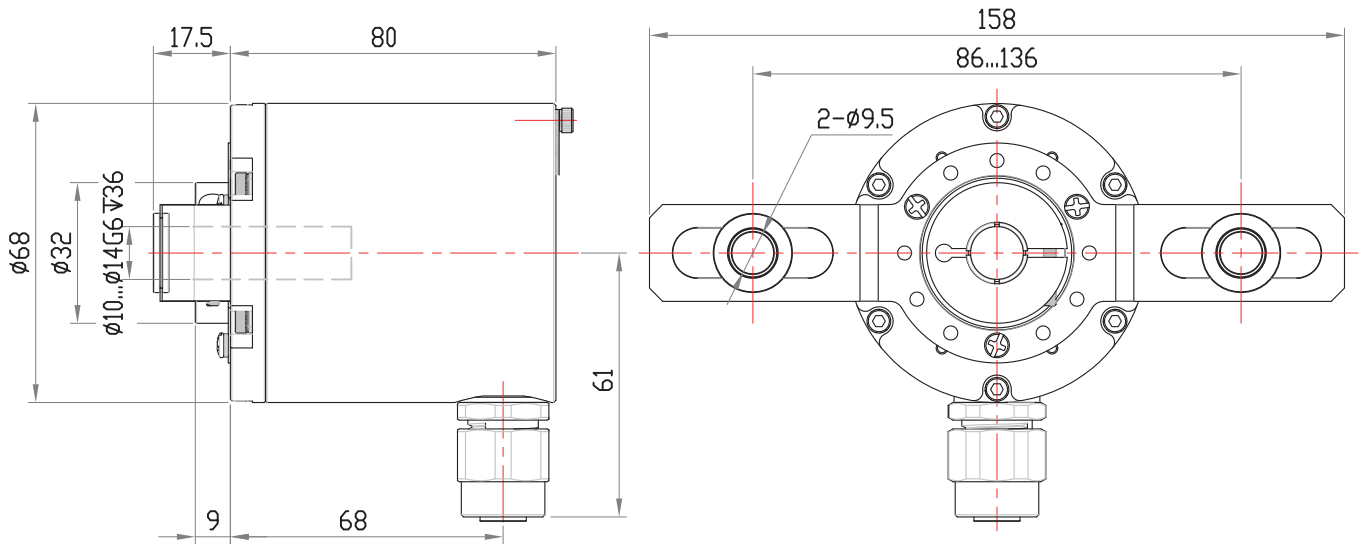


EXDE68B+8127A



Dimensions

EXDE68B+8135



EXDE68B+8138A

