

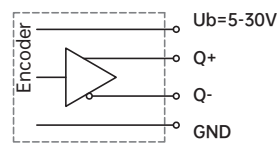
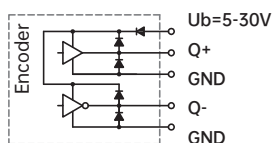


EDL58H Series
Incremental Encoder
Sensing method Optical
Housing size $\Phi 60\text{mm}$
Hollow shaft diameter $\Phi 10$ 、 $\Phi 12$ 、 $\Phi 14$ 、 $\Phi 15\text{mm}$
Max. resolution 5000PPR
Supply voltage 5-30VDC
Protection IP65/IP67

Mechanical characteristics

Shaft diameter	Hollow shaft $\Phi 10$ $\Phi 12$ $\Phi 14$ $\Phi 15$
Protection	IP65/IP67
Speed	6000 r.p.m
Shaft loading	Max. 40N Axial ; Max. 80N Radial
Shock resistance	100g, 6ms
Vibration resistance	10g, 10...2000Hz
Bearing life	10^9 turns
Host materials	Stainless steel
Housing material	Stainless steel
Working temperature	-40°C...+85°C
Storage temperature	-40°C...+85°C
Weight	≈300g

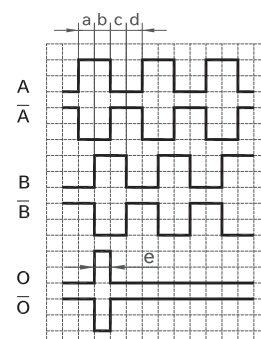
Electrical characteristics



Output circuit	Push-Pull Differential	RS422 (TTL Compatible)
Pulse rate	Max. 5000P/R	Max. 5000P/R
Supply voltage	5-30V	5-30V
Power consumption(no load)	Max. 100mA	Max. 100mA
Permissible load/channel	Max. $\pm 40\text{mA}$	Max. $\pm 40\text{mA}$
Pulse frequency	Max. 300KHz	Max. 300KHz
Signal level high	Min. $+U_b-4\text{V}$	Min. $>3\text{V}$
Signal level low	Max. $<0.8\text{V}$	Max. $<0.4\text{V}$
Rise time Tr	Max. 1 μs	Max. 1 μs
Fall time Tf	Max. 1 μs	Max. 1 μs
Short circuit proof outputs	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
12 cores M23 Socket CW (9223)		10	12	5	6	8	1	3	4	PH
8 cores M12 Socket CW 9212-2		1	2	3	4	5	6	7	8	PH



From the direction of the locking ring,
Rotate the output waveform diagram
clockwise

$$a, b, c, d = T/4 \pm T/10$$

$$e = T/4 \pm T/10$$

Ordering information

EDL58	H	10	E	1024	A	5-30	R	2	/	A	XXXX
	①	②	③	④	⑤	⑥	⑦	⑧		⑨	⑩
① Shaft type H: Hollow shaft		② Shaft diameter 10: Φ10mm 12: Φ12mm 14: Φ14mm 15: Φ15mm		③ Channels E: A $\bar{A}$, B $\bar{B}$, O $\bar{O}$		④ Pulse rate 50、100、150、200 250、256、300、360 400、500、512、600 720、800、1000 1024 、1250、1500 2000、2048、2500 3600、4096、5000			⑤ Output circuit A: Push-Pull Differential B: RS422 (TTL Compatible)		
⑥ Supply voltage 5-30: 5...30VDC		⑦ Exit position R: Radial		⑧ Connection type Figure: Cable length (m) 9223: M23 Plug-12 cores 9212-2: M12 Plug-8 cores			⑨ Protection Null: IP65 A: IP67		⑩ Special code XXXX		

Note: Printed in bold=standard items

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Notes: 1, Mentioned resolution is in common use, others depend on real situation.

2, Pls confirm the model information: Model, Output form, Output route, Range, Resolution, Output model, Voltage, Wiring method, Cable length, Connection type, special code.

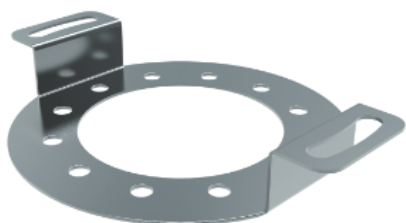
Ordering example: EDL58H10E1024A5-30R2, pls specify the special demand at end.

Explanation: EDL58H series, Hollow shaft 10mm, A $\bar{A}$ B $\bar{B}$ O $\bar{O}$, 1024PPR, Push-Pull Differential, Supply voltage 5-30V, Radial 2m.

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

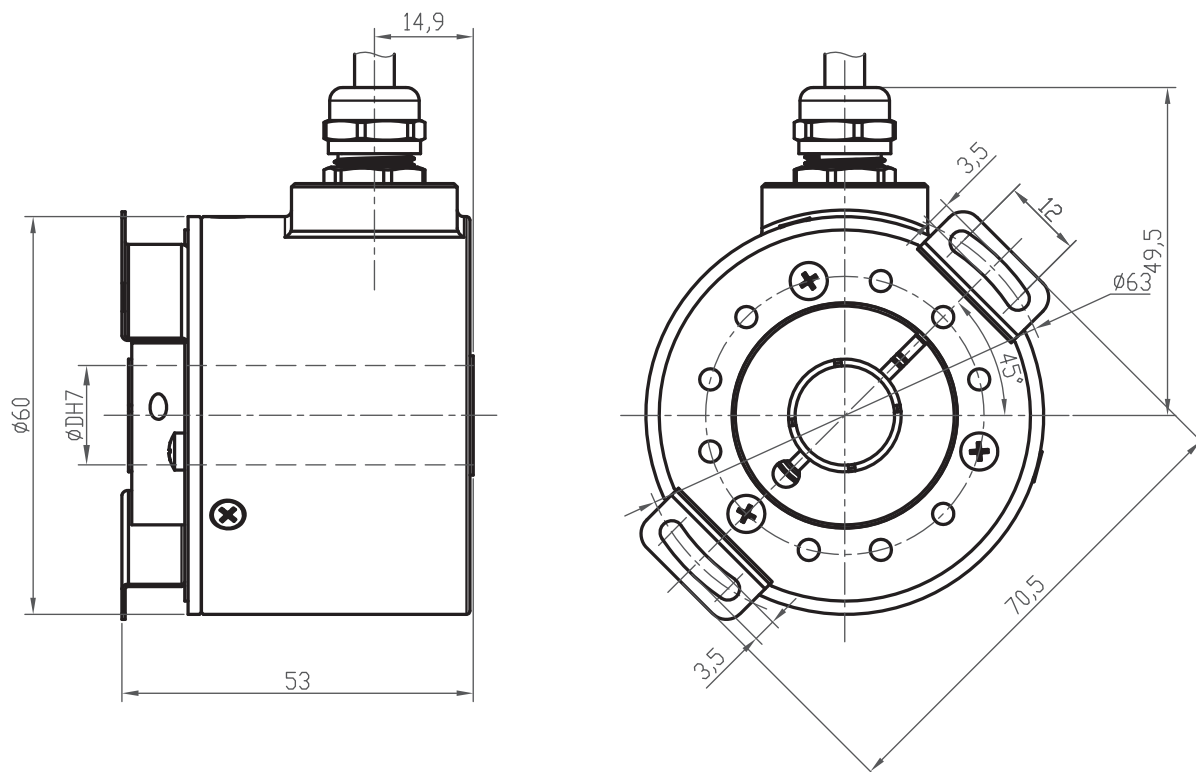
Stator coupling, double-winged

Model (common) : 8133



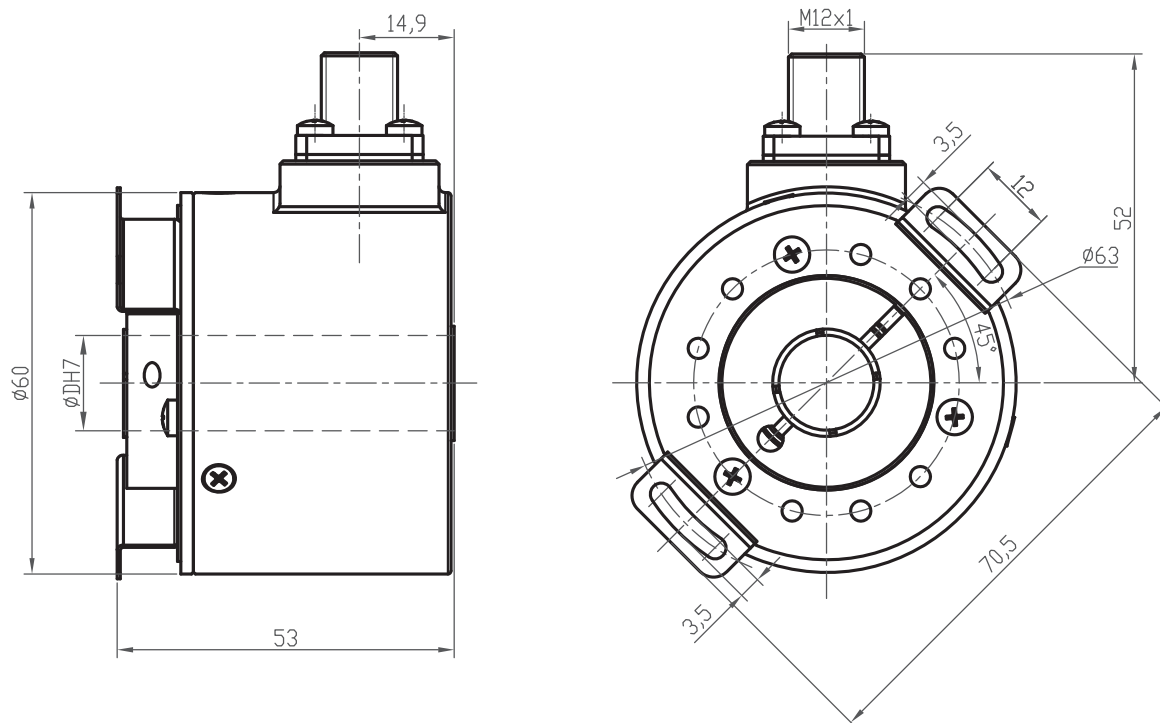
Dimensions

EDL58H



Dimensions

EDL58H+9212-2



EDL58H+9223

