

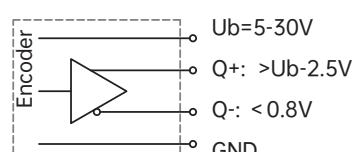
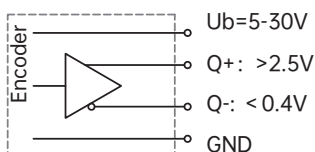


EDL58H Series
Incremental Encoder
Sensing method Optical
Housing size $\Phi 60\text{mm}$
Hollow shaft $\Phi 10$ 、 $\Phi 12$ 、 $\Phi 14$ 、 $\Phi 15\text{mm}$
Max. resolution 5000PPR
Supply voltage 5-30VDC
Protection IP65/IP67
Connection plug, M23, 12-pin, clockwise
Plug, M12, 8-pin, counterclockwise
Cable

Mechanical characteristics

Shaft diameter	Hollow shaft $\Phi 10$ 、 $\Phi 12$ 、 $\Phi 14$ 、 $\Phi 15\text{mm}$
Protection	IP65/IP67
Speed	6000 rpm
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
Exit position	Radial
Connection	Plug, M23, 12-pin, clockwise; Plug, M12, 8-pin, counterclockwise; Cable

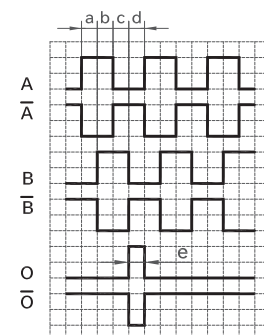
Electrical characteristics



Output circuit	TTL	RS422	HTL	HCTL
Supply voltage	5VDC	5-30VDC	5-30VDC	5-30VDC
Signal level high	> 2.5V	> 2.5V	>Ub-2.5V	>Ub-2.5V
Signal level low	<0.4V	<0.4V	<0.8V	<0.8V
Current consumption	Max. 80mA	Max. 80mA	Max. 100mA	Max. 100mA
Maximum load current	±40mA	±200mA	±40mA	±200mA
Pulse frequency	300KHz	300KHz	300KHz	300KHz
The longest cable length	100kHz/50m	100kHz/350m	100kHz/30m	100kHz/350m
Rise/fall time	Max. 1μs	Max. 1μs	Max. 1μs	Max. 1μs
Circuit protection	Surge protection, Reverse polarity protection, ESD protection			

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
Plug, M23, 12-pin, cw (9223)		10	12	5	6	8	1	3	4	PH
Plug, M23, 12-pin, cw (9212-2)		1	2	3	4	5	6	7	8	PH



Shaft turning clockwise, top-view of shaft.
 $a, b, c, d = T/4 \pm T/10$
 $e = T/4 \pm T/10$

Ordering information

EDL58	H	10	E	1024	A	5-30	R	2	/	A	XXXX
	①	②	③	④	⑤	⑥	⑦	⑧	⑨	⑩	
①Shaft type H: Hollow shaft		②Shaft diameter 10: Φ10mm 12: Φ12mm 14: Φ14mm 15: Φ15mm		③Channels E: A $\bar{A}$ B $\bar{B}$ O $\bar{O}$ D: A A B B C: A B O B: A B		④Pulse 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		⑤Output circuit F: Push-pull output (HTL) A: Push-pull differential (HTL) B: RS422 (TTL Compatible) W: HCHTL			
⑥Supply voltage 5: 5VDC 5-30: 5...30VDC		⑦Exit position R: Radial		⑧Connection type Figure: Cable length (m) 9223: Plug, M23, 12-pin, clockwise 9212-2: Plug, M12, 8-pin, counterclockwise		⑨Protection Null: IP65 A: IP67		⑩Special code XXXX			
Note: Printed in bold=standard items											

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

2, pls confirm the model information: model series, axis dimension, output channel, resolution, output form, voltage.

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

Explanation : EDL58H series, Hollow shaft 10mm, output A $\bar{A}$ B $\bar{B}$ O $\bar{O}$, 1024PPR, push-pull differential, 5-30V, Radial Output 2m.

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



Double-winged bracket
Model: 8133



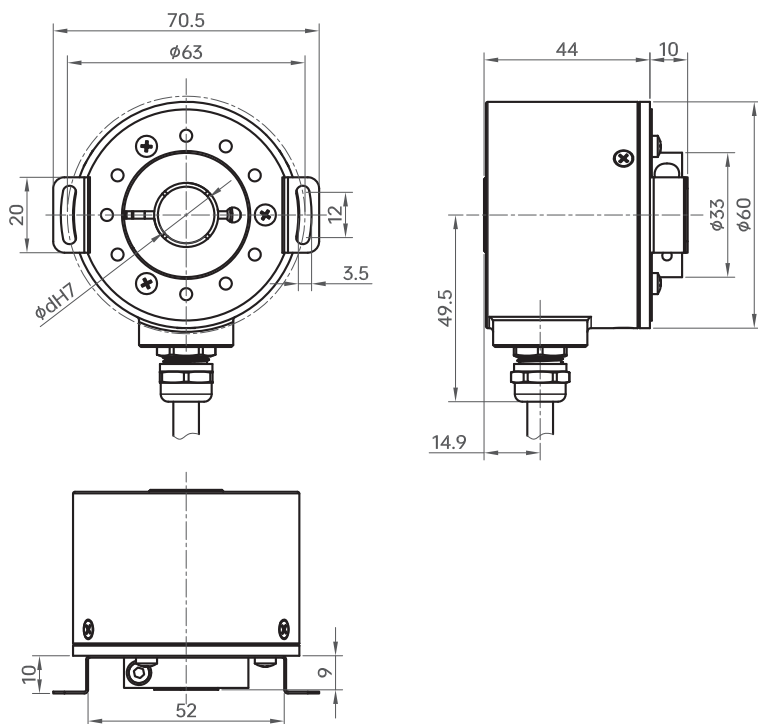
Connectors and cables
Model: 9223B/X-2022.004
Plug A: Plug, M23, 12-pin, clockwise, straight
Plug B: Bare wire end, × meters cable, PVC, shielded wire 4×2×0.2², Ø6.8±0.2mm



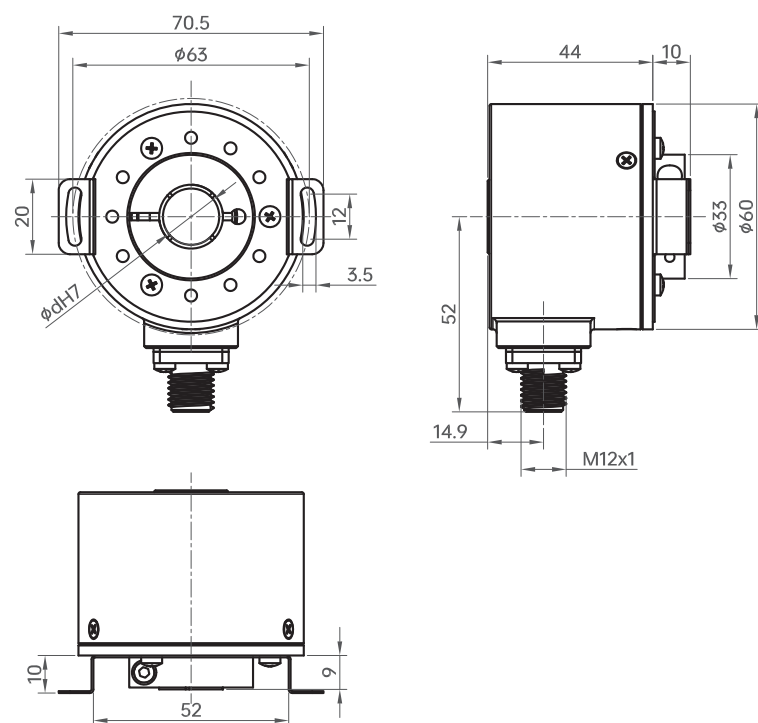
Connectors and cables
Model: 9212-1B/X-2022.004
Plug A: Plug, M12, 8-pin, counterclockwise, straight
Plug B: Bare wire end, × meter cable, PVC, shielded wire 4×2×0.2², Ø6.8±0.2mm

Dimensions

EDL58H



EDL58H+9212-2



Dimensions

EDL58H+9223

