



EH-EL 58 B/C/H/T INCREMENTAL ENCODER



Incremental encoder

Standard encoder Ø58 series for industrial applications with high mechanical resistance requirements. Those encoders are designed to support high radial and axial shaft load and they can be mounted with flanges or servo-fasteners.

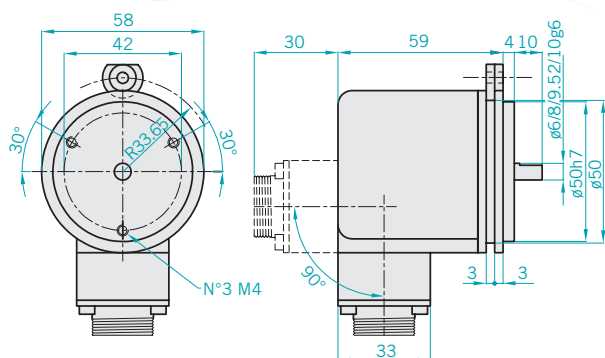
- Up to 10.000 ppr with zero for EL series, up to 1024 ppr for EH series.
- Several output types available.
- Up to 28 Vdc input voltage for EL series and up to 24 Vdc for EH series.
- Up to 300 kHz frequency response for EL series and up to 100 kHz for EH series
- Output cable with connector.
- Several flanges available
- Up to 6.000 rpm speed rotation
- Up to IP66 sealing



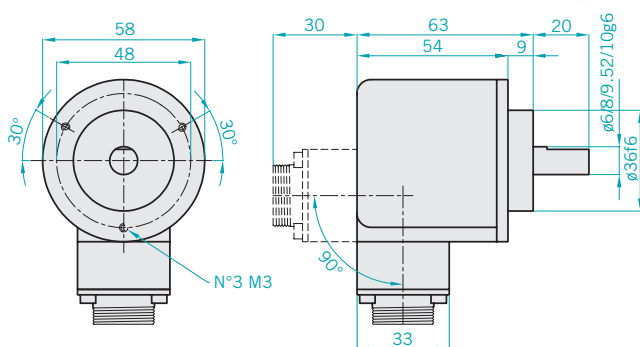
Ordering code

Full stop to separate special versions											
EL	58	B	1000	Z	5/28	P	6	X	6	P	R . XXX
incremental encoder series EL incremental encoder series EH		body dimension 58		Special version code numbered from 001 to 999							
Type of flange		mod.EH-EL 58 B mod.EH-EL 58 C mod.EH-EL 58 H mod.EH-EL 58 T		R radial A axial		P cable output (standard length 1,5 m) M connector MS3106E 16S-1S o 18-1S J connector JMSP 1607 F o 1610 F		R.P.M. 3 3000 6 6000			
Resolution		From 1 to 10000 PPR for series EL From 40 to 1024 PPR for series EH Please, directly contact our offices for pulses availability		Enclosure rating		X standard IP54 S optional IP66		Shaft diameter 6 ø 6 g6 mm EH-EL58 B/C/H 8 ø 8 g6 mm EH-EL58 B/C/H/T 9 ø 9,52 g6 mm (3/8") EH-EL58 B/C/H 10 ø 10 g6 mm EH-EL58 B/C/H/T 12 ø 12 g6 mm EH-EL58 T			
Zero pulse		without zero pulse S with zero pulse Z		Input voltage		input voltage EL 5 ÷ 28 input voltage EH 5/8 ÷ 24		Output types N NPN C NPN OPEN COLLECTOR P PUSH PULL L LINE DRIVER (only series EL)			
LINE DRIVER available only with input voltage 5 Vdc or 8 ÷ 24 Vdc											
For optionals about output types please refer to incremental output section											

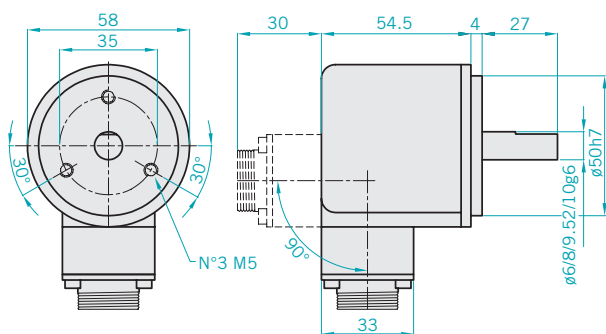
EH-EL 58 B



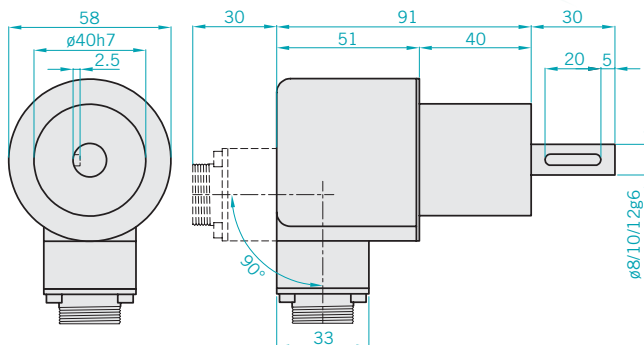
EH-EL 58 C



EH-EL 58 H



EH-EL 58 T



EL series electrical specifications

Resolution	From 1 to 10000 PPR
Input voltage	5 ÷ 28 Vdc LINE DRIVER only available with input voltage 5 / 8÷24 Vdc
Input current with no output load	100 mA Max
Source and sink current	50 mA for channel 20 mA for channel with LINE DRIVER
Output types	NPN / NPN OPEN COLLECTOR / PUSH PULL / LINE DRIVER
Frequency response	300 KHz Max $F = \frac{RPM \times Resolution}{60}$

EH series electrical specifications

Resolution	From 40 to 1024 PPR
Input voltage	5 Vdc / 8 ÷ 24 Vdc
Input current with no output load	100 mA Max
Source and sink current	50 mA for channel 20 mA for channel with LINE DRIVER
Output types	NPN / NPN OPEN COLLECTOR / PUSH PULL / LINE DRIVER
Frequency response	100 KHz Max $F = \frac{RPM \times Resolution}{60}$

Mechanical specifications

Shaft diameter	6/8/9,52 (3/8")/10 mm g6 EH- EL58 B/C/H
Enclosure rating	IP54 standard IP66
Shaft speed	3000 RPM 6000 RPM 3000 RPM MAX with "S" rating
Max shaft load	200N (20 Kp) axial 10N (1 Kp) axial 200N (20 Kp) radial 20N (2 Kp) radial with shaft 6 mm
Shock	50 G for 11 msec (with plastic disc) 20 G for 11 msec (with glass disc)
Vibrations	10G 10 ÷ 2000 Hz
Bearings life	10 ⁹ revolutions
Bearings	n° 2 Ball bearings
Shaft material	Stainless steel AISI303
Body material	Aluminium D11S - UNI 9002/5
Housing material	PA 66 reinforced with fiber glass
Operating temperature	0° ÷ +60°C
Storage temperature	-25° ÷ +70°C
Weight	300 g



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