

Series IN58TH

Incremental Rotary Encoders

Specifications

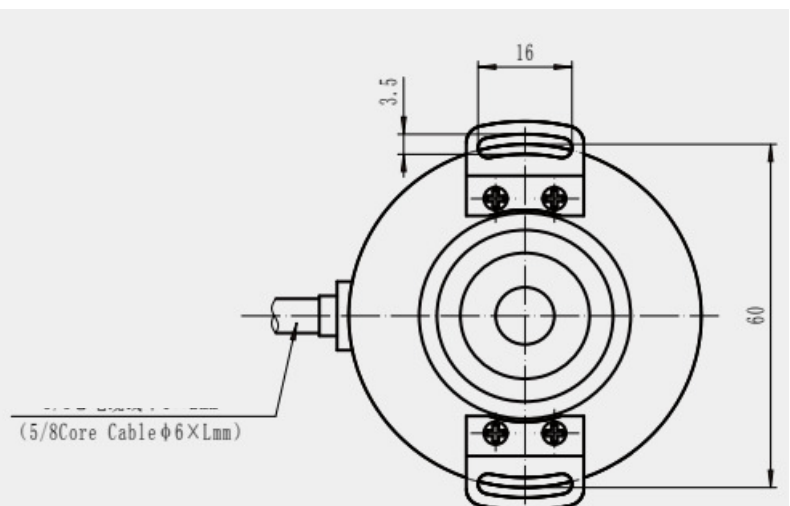
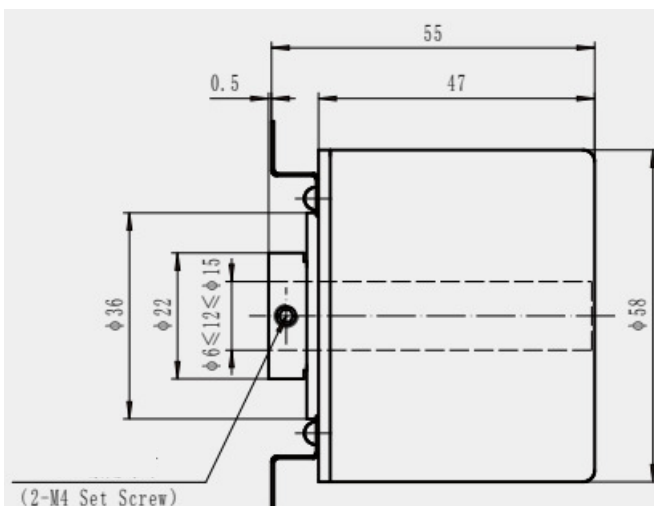
Resolution	: 100 ... 6000 ppr
External Diameter	: 58 mm
Hollow Shaft Diameter	: 6 / 8 / 10 / 12 / 14 / 15 mm
Shaft Length	: through hollow, 47 mm
Shaft Load	: Radial ≤40N, Axial ≤20N
Supply Voltage	: DC 5V 8V ... 26V 10V ... 30V 12V
Output Model	: Voltage Push-pull Open collector Line driver
Output Phase	: A, B, Z A, <u>A</u> , B, <u>B</u> , Z, <u>Z</u>
Current	: 60 ... 120 mA
Slew Speed	: 4000 rpm
Frequency Response	: 0-300 kHz
Termination	: Side Entry Cable
Operating Temperature	: -20 ... +85°C
Protection Class	: IP52



Electrical Connection

Cable Color	E (Voltage)	F (Push Pull)	C (Open Coll)	L, A (Line Driver)
Red	Vcc	Vcc	Vcc	Vcc
Black	0 V	0 V	0 V	0 V
Green	A	A	A	A
Brown				<u>A</u>
White	B	B	B	B
Grey				<u>B</u>
Yellow	Z	Z	Z	Z
Orange				<u>Z</u>
Shield	G	G	G	G

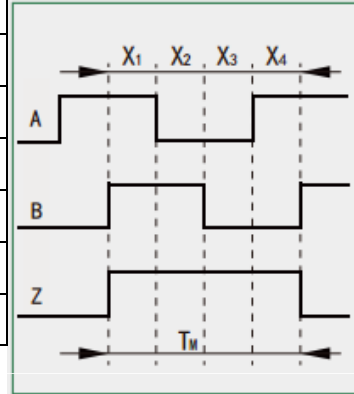
Dimensions



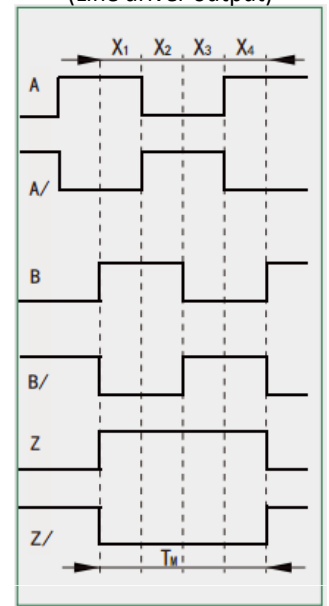
Output Waveform

Clock-wise
waveform from
shaft side

3 channel
(Voltage, Push Pull, Open
Collector Output)

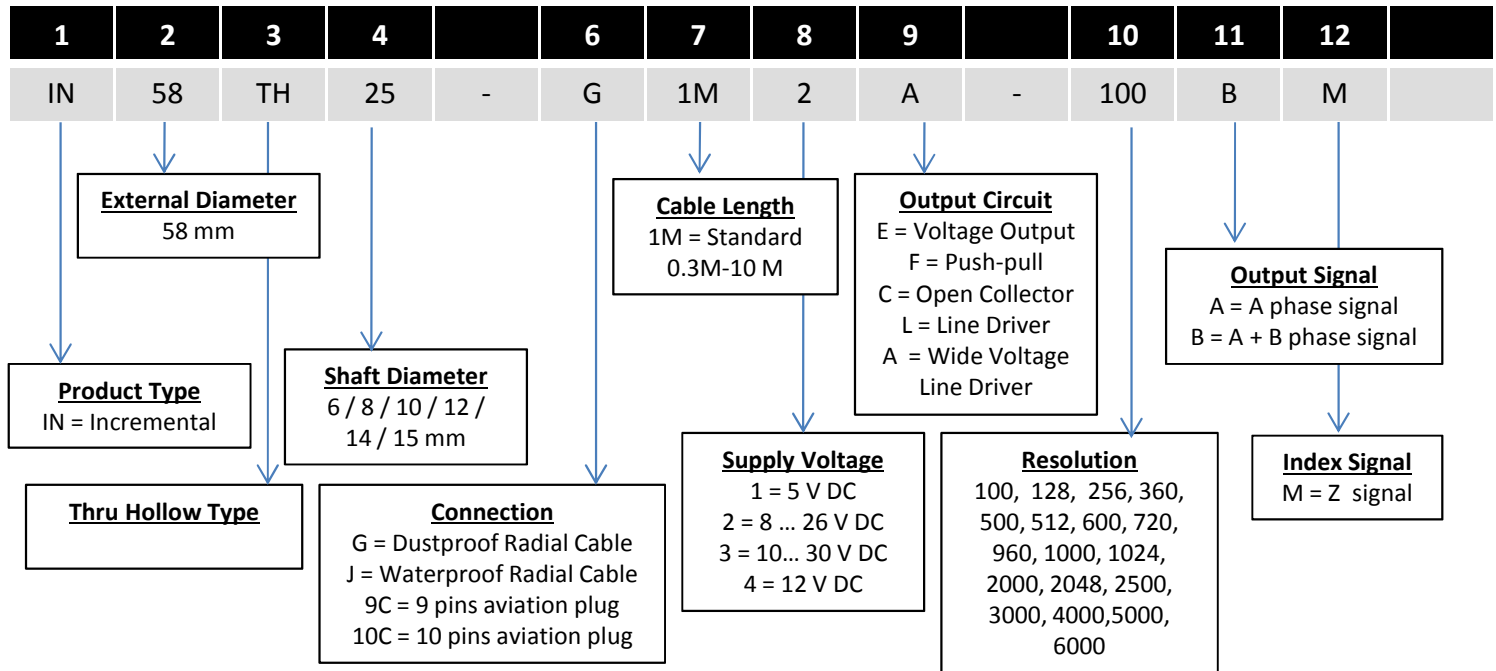


6 channel
(Line driver output)



Incremental Rotary Encoders

Ordering Code



9 Pins Aviation Plug

Pin No	Cable Color	E (Voltage)	F (Push Pull)	C (Open Coll)	L, A (Line Driver)
1	Red	Vcc	Vcc	Vcc	Vcc
2	Yellow	Z	Z	Z	Z
3	White	B	B	B	B
4	Black	0 V	0 V	0 V	0 V
5	Green	A	A	A	A
6	Gray				<u>B</u>
7	Brown				<u>A</u>
8	Orange				<u>Z</u>
9	Shield	G	G	G	G

10 Pins Aviation Plug

Pin No	Cable Color	E (Voltage)	F (Push Pull)	C (Open Coll)	L, A (Line Driver)
1	Red	Vcc	Vcc	Vcc	Vcc
2	Yellow	Z	Z	Z	Z
3	White	B	B	B	B
4	Black	0 V	0 V	0 V	0 V
5	Green	A	A	A	A
6	Gray				<u>B</u>
7	Brown				<u>A</u>
8	Orange				<u>Z</u>
9	Black	0 V	0 V	0 V	0 V
10	Shield	G	G	G	G