

M58SA/M58SB/M58SC/M58SD

- Incremental model
- External diameter of 58mm
- Resolution up to 5400 ppr.
- Various output type
- Solid shaft with Dia at 5/6/10 mm



Ordering Information

M58SA/M58SB/M58SC/M58SD -

1 2 3 4 5 6 7

M58SA:	58mm Rotary encoder	(Mounting type A)
M58SB:	58mm Rotary encoder	(Mounting type B)
M58SC:	58mm Rotary encoder	(Mounting type C)
M58SD:	58mm Rotary encoder	(Mounting type D)

3: A B Z
6: A $\bar{A}$ B $\bar{B}$ Z $\bar{Z}$

5: Solid shaft with Dia at 5 mm
6: Solid shaft with Dia at 6 mm
10: Solid shaft with Dia at 10 mm

10: 10 ppr
20: 20 ppr

40 50 60 80 100 120 125 150
200 225 240 250 256 300 360 400 450
480 500 512 600 625 720 750 800 900
1000 1024 1080 1200...up to 5400

30: 5-30 VDC(+/- 5%)
5: 5 VDC(+/- 5%)

G: Side entry cable
X: Side entry plug

▲ Standard cable length is 2M

Ratings and Specifications

Starting torque: 6×10^{-3} N.m Maximum

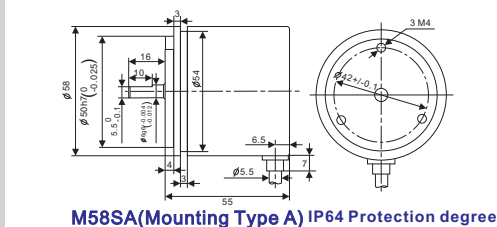
Timing diagram for the 3-phase motor driver. The diagram shows the timing of the A Phase, A-bar Phase, B Phase, B-bar Phase, Z Phase, and Z-bar Phase. The period of the A and B phases is T. The duty cycle of the A and B phases is $4 \pm \frac{1}{8}$. The period of the Z phase is $T \pm \frac{1}{2}$. The A-bar and B-bar phases are the complements of the A and B phases. The Z-bar phase is the complement of the Z phase. A clockwise arrow indicates the direction of rotation.

NPN Open Collector	PNP Open Collector	Complementary output	Voltage Output	Line driver and Push-pull(HTL)

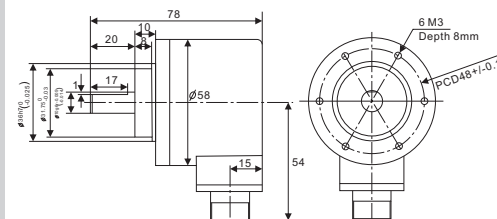
Red: +V
 Black: GND(0V)
 Green: OUT A
 White: OUT B
 Yellow: OUT Z
 Shield: F.G

- Red: +V
- Black: GND(0V)
- Green: OUT A
- White: OUT B
- Yellow: OUT Z
- Brown: OUT $\bar{A}$
- Grey: OUT $\bar{B}$
- Orange: OUT $\bar{Z}$
- Shield: F.G

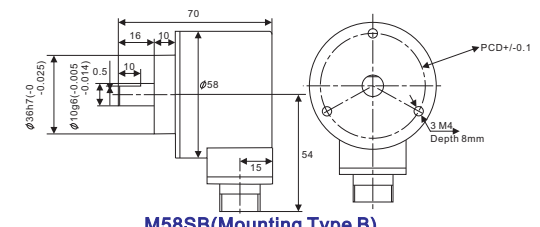
Mounting and Dimensions



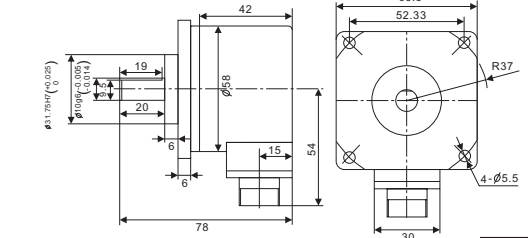
M58SA(Mounting Type A) IP64 Protection degree



M58SC(Mounting Type C)



M58SB(Mounting Type B)



M58SD(Mounting Type D,with Flange)