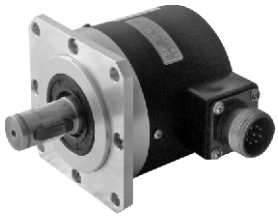
# PZF series



E: Voltage output
C: Open collector output
F: Complementary output(Push pull)
L: Line driver Output
T: Line driver (high TTL)

■ Explanation of model

PZF □ — □ — ▭ — □ — □ ▭ — □

model | shaft diameter | resolution | connection | voltage | output form

E : Axial cable
G/GM:Radial cable
C:Side entry plug
J:Side entry rectangle plug

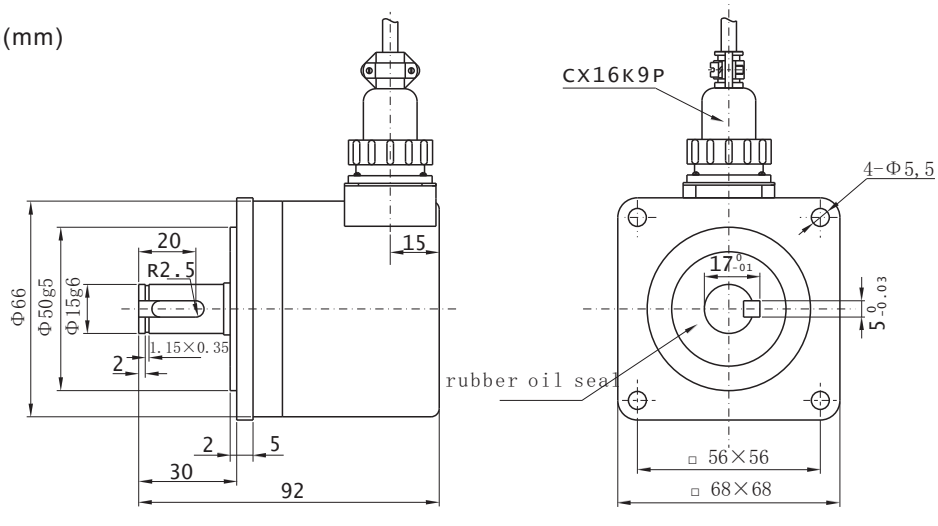
■ For example

PZF-1024-C05D is shaft diameter Φ15, 1024P/R, side entry plug, supply voltage 5V, line driver output .

■ Technical data

| | | | |
|---|---|---|---|
| Resolution | 100-5000P/R | Rotating inertia | $3.5\times10^{-6}$kg·m$^2$ |
| Supply voltage | DC5VorDC 10V～30V | Max rotating speed | 6000r/min |
| $V_H$ Output voltage | ≥Vcc×70% | Vibration resistance | 50m/s$^2$(10～200Hz) (XYZeach direction2hours) |
| $V_L$ Output voltage | ≤0.5V | Shock resistance | 980m/s$^2$ (XYZeach direction2times) last6mS |
| Current consumption | ≤150mA | Protection | IP65 |
| Output phase | A. B. Z | Operating temperature | - 10℃～+70℃ |
| Frequency response | 100kHz Max | Storage temperature | - 20℃～+80℃ |
| Rise/fall time | ≤1μSorline driver≤0.1μS | Operating humidity | 30～85%RH |
| Starting torque | $3\times10^{-3}$N • m(+25℃) | Weight (no cable) | 0.6kg |
| Shaft loading | Radial40N Axial 20N | Accessories | |

■ Connection table

| cable color | | Red | Black | White | Green | Yellow | Blue | Orange | Brown | Shield |
|---|---|---|---|---|---|---|---|---|---|---|
| Output form | C/E/F | VCC | 0V | A | B | Z | — | — | — | FG |
| | P/L/D/H/M | VCC | 0V | A | B | Z | $\bar{A}$ | $\bar{B}$ | $\bar{Z}$ | FG |
| 7PIN | | 1 | 7 | 3 | 4 | 5 | | | | 6 |
| 9PIN | | 4 | 3 | 1 | 2 | 5 | 8 | 9 | 6 | 7 |
| 19PIN | | 8 | 10/12 | 1 | 3 | 2 | | | | 17 |

■ Dimension(mm)