

Photoelectric Sensors

► TOF anti-interference miniature photoelectric switch



► Model Explanation

C3Z - TOF1N

① ② ③ ④

① C3Z Series Photoelectric

② TOF Diffuse reflective type

③ Detection distance: 1: 50 ~ 1000mm, 2: 50 ~ 2000mm, 4: 50 ~ 4000mm

④ N:NPN、P:PNP

► Product Features

- 1、Simple connection for easy installation
- 2、Multi-protection: polarity protection, over-current protection
- 3、TOF principle, stable detection
- 4、Detecting distance is easy to set with one button

5、With background suppression function, not affected by the material and colour of the detected object

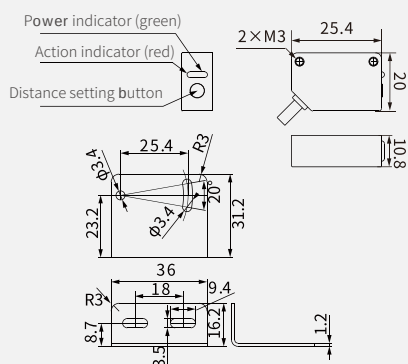
6、Good light resistance

► Main technical parameters

Specification		Diffuse reflective TOF		
D C	NPN	C3Z-TOF1N	C3Z-TOF2N	C3Z-TOF4N
	PNP	C3Z-TOF1P	C3Z-TOF2P	C3Z-TOF4P
Detection distance※1		50 ~ 1000mm(Adjustable)	50 ~ 2000mm(Adjustable)	50 ~ 4000mm(Adjustable)
Sensitivity adjustment		One-touch button setting		
Standard detection object		10×10cm White non-glossy paper		
Detectable objects		Reflecting object		
Response time		10ms		
Supply Voltage		DC12 ~ 24V		
Operating current		Load current ≤ 100mA; Static current: ≤ 20mA		
Residual voltage		≤ 2.5V		
Protection circuit		Polarity, overcurrent and overload protection		
Indicator light		Green power indicator, red action indicator		
Ambient illuminance range		Incandescent: Spot intensity under 10,000Lx		
Temperature range		Operating: -25~+55°C (no icing, condensation); Storage: -30~+70°C (no icing, condensation)		
Humidity range		Operation, storage: 35~85% (no condensation)		
Sensing surface material		PC		

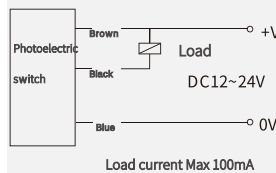
※1. Detection distance range value ±10% ※2. Response frequency is average value.Measurement conditions: Use a standard detection object and set the distance to 1/2 of the detection distance.

► Dimension (Unit: mm)



► Wiring diagram

1、DC 3-Wire NPN NO/NC



2、DC 3-Wire PNP NO/NC

