

## Plastic square shape photoelectric sensors **PTF** series



### Features

- ◆ Diffuse reflection working principle;
- ◆ Excellent anti-interference performance
- ◆ High detection accuracy

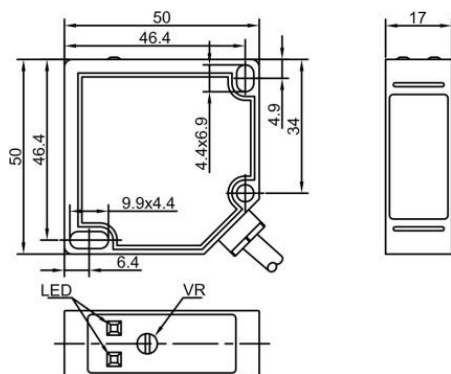
### Part number

|              |            |             |
|--------------|------------|-------------|
| Relay output | PTF-BC50SK | PTF-BC100SK |
|--------------|------------|-------------|

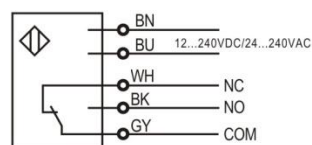
### Technical specifications

|                         |                                    |                       |                                        |
|-------------------------|------------------------------------|-----------------------|----------------------------------------|
| Detection type          | Diffuse reflection                 | Consumption current   | ≤40mA                                  |
| Rated distance [Sn]     | 50cm(adjustable)100cm (adjustable) | Circuit protection    | .....                                  |
| Standard target         | White card reflection rate 90%     | Response time         | < 30ms                                 |
| Light source            | Infrared LED (880nm)               | Output indicator      | Power: Green LED    Output: Yellow LED |
| Dimensions              | 50 mm *50 mm *17mm                 | Ambient temperature   | -15°C...+55°C                          |
| Output                  | Relay output                       | Ambient humidity      | 35-85%RH (non-condensing)              |
| Supply voltage          | 24...240VAC/12...240 VDC           | Voltage withstand     | 2000V/AC 50/60Hz 60s                   |
| Target                  | Opaque object                      | Insulation resistance | ≥50MΩ(500VDC)                          |
| Hysteresis range [%/Sr] | 3...20%                            | Vibration resistance  | 10...50Hz (0.5mm)                      |
| Repeat accuracy [R]     | ≤5%                                | Degree of protection  | IP64                                   |
| Load current            | ≤3A                                | Housing material      | PC/ABS                                 |
| Residual voltage        | .....                              | Connection type       | 2m PVC cable                           |

### Dimensions



### Wiring diagram



Relay output