

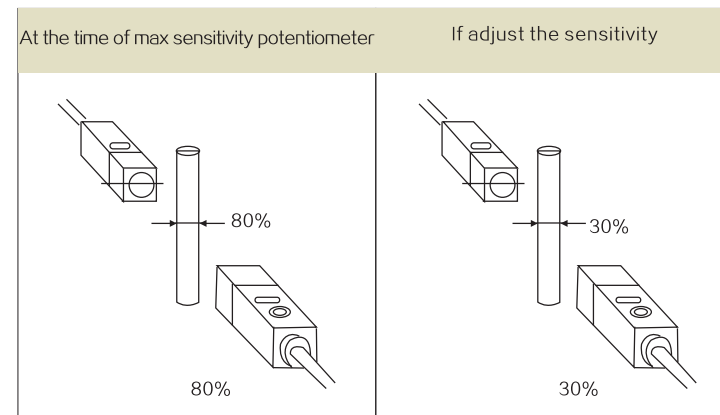
PHOTOELECTRIC SWITCH

PHOTOELECTRIC SWITCH

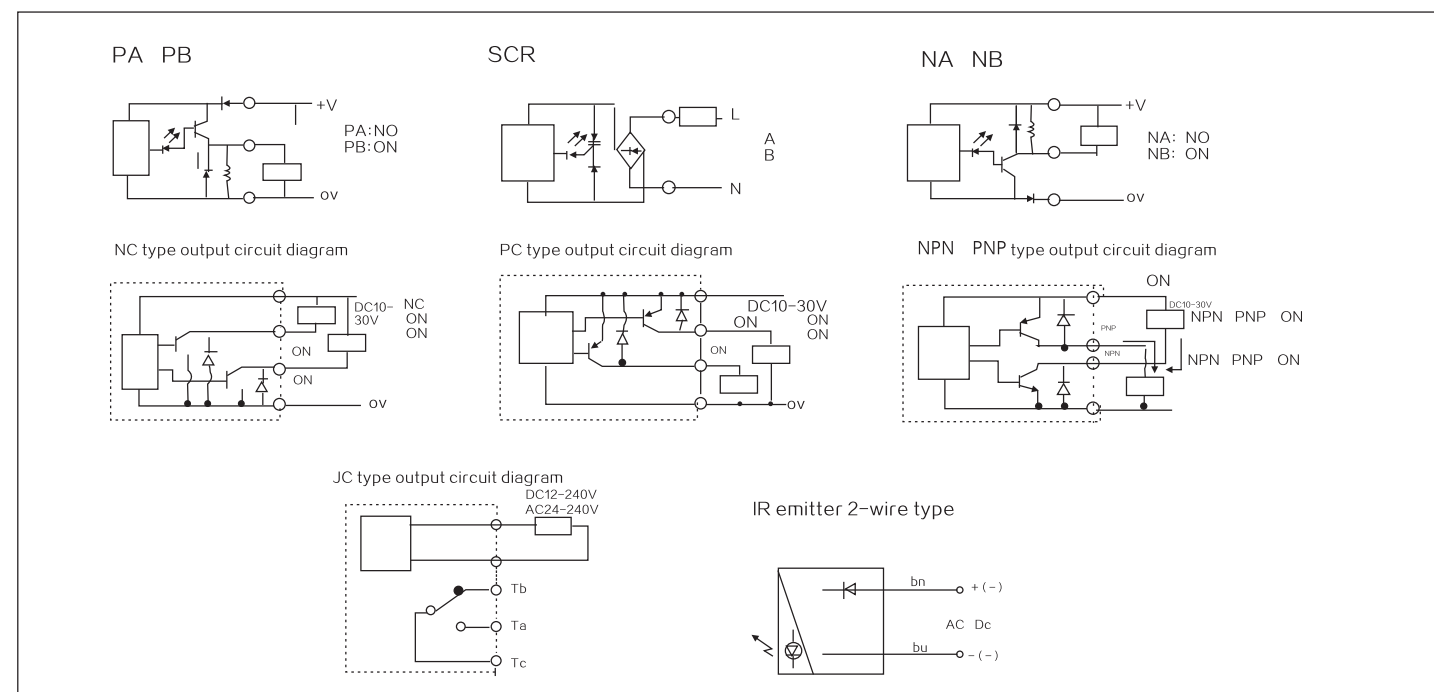
Method of anti mutual-interference and cautions

The unstable action resulted from the entrance light from another sensor while the photoelectric sensor is approaching the equipment is called mutual interference.

- Mutual cross installation of optic projector and photoreceptor
- When using reflection type in parallel, the mutual spacing should be kept at over 1.4 times detection distance.
- When using correlation type in parallel, the mutual spacing should be kept at over 0.4 times detection distance.
- The mains voltage should be within the range of operating mains voltage.
- The following installation occasions will result in error action, take note of.
 - ① Dusty occasion
 - ② The occasion with corrosive gas
 - ③ The occasion directly spattered with water, oil and agent, etc
 - ④ Outdoor or the occasion directly shine by hard light like, sunlight







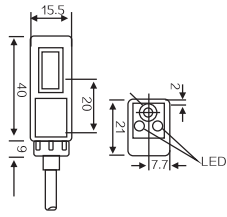
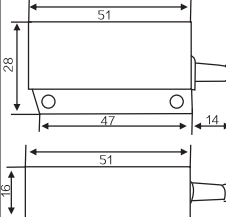
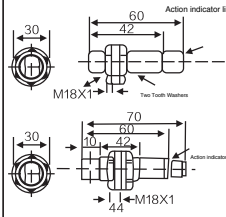
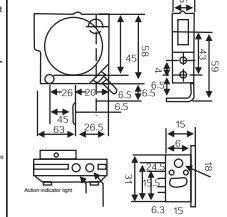
Output return diagram of photoelectric switch

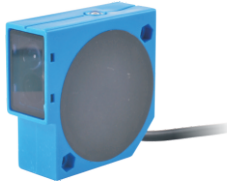




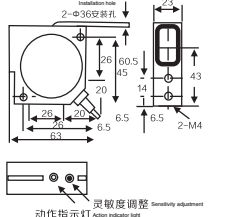
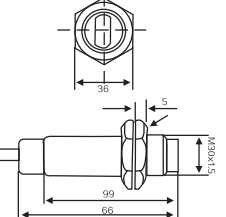
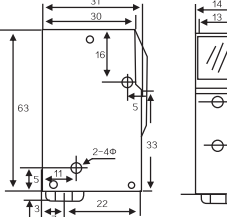
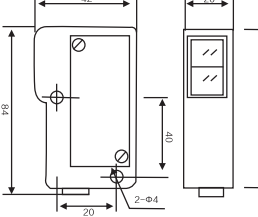
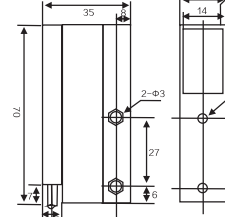


| Structural category | | Photoelectric switch | | | | | | |
|--------------------------------------------------|---------------------------|----------------------------------------------------------------------|--------------------|--------------------|----------------|---------------|---------------|--------------|
| Outward appearance code | | G12 | G13 | G14 | G15 | | | |
| Outward appearance illustration | | | | | | | | |
| Overall dimensions | | | | | | | | |
| Diffuse Type | 10-30 VDC | NPN | Detection distance | 7cm | 10cm | 10cm | 10cm | |
| | | | NO | CZ G12-3A07NA | CZ G13-3A10NA | CZ G14-3A10NA | CZ G15-3A10NA | |
| | | | NC | CZ G12-3A07NB | CZ G13-3A10NB | CZ G14-3A10NB | CZ G15-3A10NB | |
| | | NO+NC | CZ G12-3A07NC | CZ G13-3A10NC | CZ G14-3A10NC | CZ G15-3A10NC | | |
| | | PNP | NO | CZ G12-3A07PA | CZ G13-3A07PA | CZ G14-3A07PA | CZ G15-3A07PA | |
| | | | NC | CZ G12-3A07PB | CZ G13-3A07PB | CZ G14-3A07PB | CZ G15-3A07PB | |
| | NO+NC | | CZ G12-3A07PC | CZ G13-3A07PC | CZ G14-3A07PC | CZ G15-3A07PC | | |
| | 90-250 AVC | SCR Controlable silicon | NO | | | | | |
| | | | NC | | | | | |
| | | Relay output | | | | | | |
| | Retroreflective | 10-30 VDC | NPN | Detection distance | 1m | 1m | 1m | 1m |
| | | | | NO | CZ G12-3B1NA | CZ G13-3B1NA | CZ G14-3B1NA | CZ G15-3B1NA |
| NC | | | | CZ G12-3B1NB | CZ G13-3B1NB | CZ G14-3B1NB | CZ G15-3B1NB | |
| NO+NC | | | CZ G12-3B1NC | CZ G13-3B1NC | CZ G14-3B1NC | CZ G15-3B1NC | | |
| PNP | | | NO | CZ G12-3B1PA | CZ G13-3B1PA | CZ G14-3B1PA | CZ G15-3B1PA | |
| | | | NC | CZ G12-3B1PB | CZ G13-3B1PB | CZ G14-3B1PB | CZ G15-3B1PB | |
| | | NO+NC | CZ G12-3B1PC | CZ G13-3B1PC | CZ G14-3B1PC | CZ G15-3B1PC | | |
| 90-250 AVC | | SCR Controlable silicon | NO | | | | | |
| | | | NC | | | | | |
| | | Relay output | | | | | | |
| Trough beam | | 10-30 VDC | NPN | Detection distance | 3m | 3m | 3m | 3m |
| | | | | NO | CZ G12-3C3NA | CZ G13-3C3NA | CZ G14-3C3NA | CZ G15-3C3NA |
| | NC | | | CZ G12-3C3NB | CZ G13-3C3NB | CZ G14-3C3NB | CZ G15-3C3NB | |
| | NO+NC | | CZ G12-3C3NC | CZ G13-3C3NC | CZ G14-3C3NC | CZ G15-3C3NC | | |
| | 正逻辑 PNP | | NO | CZ G12-3C3PA | CZ G13-3C3PA | CZ G14-3C3PA | CZ G15-3C3PA | |
| | | | NC | CZ G12-3C3PB | CZ G13-3C3PB | CZ G14-3C3PB | CZ G15-3C3PB | |
| | | NO+NC | CZ G12-3C3PC | CZ G13-3C3PC | CZ G14-3C3PC | CZ G15-3C3PC | | |
| | 90-250 AVC | SCR Controlable silicon | NO | | | | | |
| | | | NC | | | | | |
| | | Relay output | | | | | | |
| | DC/SCR/ Control output | | DC:200mA | | | | | |
| | DC/AC Consumption current | | DC<15mA | | | | | |
| DC/AC Response time | | Dc<2ms | | | | | | |
| Directional angle | | 3° - 10° | | | | | | |
| Detected object | | transparent or opaque body | | | | | | |
| Working environment temperature | | -25°C ~ +55°C | | | | | | |
| Intensity of illumination of working environment | | 10000LX Sunlight under 10000LX 3000LX incandescent lamp under 3000LX | | | | | | |
| Shell material | | Metal | Metal | Plastic | Plastic, Metal | | | |
| Protection grade | | IP54 | IP54 | IP54 | IP54 | | | |

PHOTOELECTRIC SWITCH





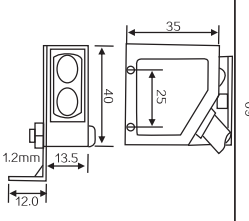
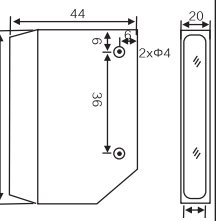
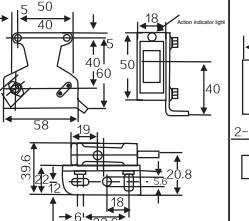
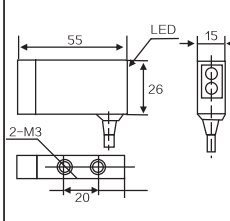
PHOTOELECTRIC SWITCH






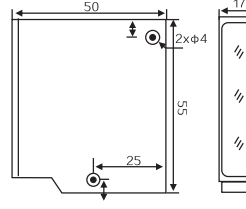
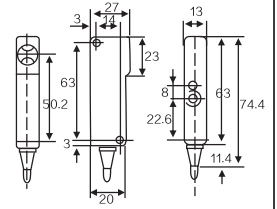
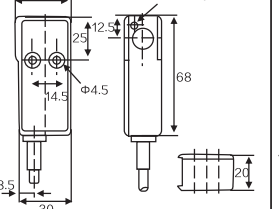
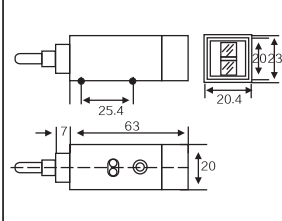
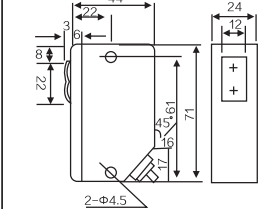
| Structural category | | Photoelectric switch | | | | | |
|--------------------------------------------------|--------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------|---------------|
| Outward appearance code | | G16 | G17 | G18 | G23 | | |
| Outward appearance illustration | |  |  |  |  | | |
| Overall dimensions | |  |  |  |  | | |
| Diffuse Type | 10-30 VDC | NPN | Detection distance | 10cm | 30cm | 10cm-30cm | 10cm-50cm |
| | | | NO | CZ G16-3A10NA | CZ G17-3A30NA | CZ G18-3A10NA | CZ G23-3A10NA |
| | | | NC | CZ G16-3A10NB | CZ G17-3A30NB | CZ G18-3A10NB | CZ G23-3A10NB |
| | | NO+NC | CZ G16-3A10NC | CZ G17-3A30NC | CZ G18-3A10NC | CZ G23-3A10NC | |
| | PNP | NO | CZ G16-3A10PA | CZ G17-3A30PA | CZ G18-3A10PA | CZ G23-3A10PA | |
| | | NC | CZ G16-3A10PB | CZ G17-3A30PB | CZ G18-3A10PB | CZ G23-3A10PB | |
| | | NO+NC | CZ G16-3A10PC | CZ G17-3A30PC | CZ G18-3A10PC | CZ G23-3A10PC | |
| | 90-250 VAC | SCR Controlable silicon | NO | | | CZ G18-2A10LA | |
| | | | NC | | | CZ G18-2A10LB | |
| | Relay output | | | | | | |
| Retroreflective | 10-30 VDC | NPN | Detection distance | 1m | 2m | 2m | 2m |
| | | | NO | CZ G16-3B1NA | CZ G17-3B2NA | CZ G18-3B2NA | CZ G23-3B2NA |
| | | | NC | CZ G16-3B1NB | CZ G17-3B2NB | CZ G18-3B2NB | CZ G23-3B2NB |
| | | NO+NC | CZ G16-3B1NC | CZ G17-3B2NC | CZ G18-3B2NC | CZ G23-3B2NC | |
| | PNP | NO | CZ G16-3B1PA | CZ G17-3B2PA | CZ G18-3B2PA | CZ G23-3B2PA | |
| | | NC | CZ G16-3B1PB | CZ G17-3B2PB | CZ G18-3B2PB | CZ G23-3B2PB | |
| | | NO+NC | CZ G16-3B1PC | CZ G17-3B2PC | CZ G18-3B2PC | CZ G23-3B2PC | |
| | 90-250 VAC | SCR Controlable silicon | NO | | | CZ G18-2B2LA | |
| | | | NC | | | CZ G18-2B2LB | |
| | Relay output | | | | | | |
| Trough beam | 10-30 VDC | NPN | Detection distance | 5m | 3m | 5m | 5m |
| | | | NO | CZ G16-3C5NA | CZ G17-3C3NA | CZ G18-3C5NA | CZ G23-3C5NA |
| | | | NC | CZ G16-3C5NB | CZ G17-3C3NB | CZ G18-3C5NB | CZ G23-3C5NB |
| | | NO+NC | CZ G16-3C5NC | CZ G17-3C3NC | CZ G18-3C5NC | CZ G23-3C5NC | |
| | PNP | NO | CZ G16-3C5PA | CZ G17-3C3PA | CZ G18-3C5PA | CZ G23-3C5PA | |
| | | NC | CZ G16-3C5PB | CZ G17-3C3PB | CZ G18-3C5PB | CZ G23-3C5PB | |
| | | NO+NC | CZ G16-3C5PC | CZ G17-3C3PC | CZ G18-3C5PC | CZ G23-3C5PC | |
| | 90-250 VAC | SCR Controlable silicon | NO | | | CZ G18-2C5LA | |
| | | | NC | | | CZ G18-2C5LB | |
| | Relay output | | | | | | |
| DC/SCR/ Control output | | DC:200mA、AC:300mA | | | | | |
| DC/AC Consumption current | | DC<15mA、AC:<10mA | | | | | |
| DC/AC Response time | | Dc<2ms、AC<2ms | | | | | |
| Directional angle | | 3° -10° | | | | | |
| Detected object | | transparent or opaque body | | | | | |
| Working environment temperature | | -25℃~+55℃ | | | | | |
| Intensity of illumination of working environment | | 10000LX Sunlight under 10000LX 3000LX incandescent lamp under 3000LX | | | | | |
| Shell material | | | Plastic | Plastic | Metal | | |
| Protection grade | | IP54 | IP54 | IP54 | IP54 | | |

| Structural category | | Photoelectric switch | | | | | | |
|--------------------------------------------------|--------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------|---------------|
| Outward appearance code | | G24 | G30 | G33 | G35 | G36 | | |
| Outward appearance illustration | |  |  |  |  |  | | |
| Overall dimensions | |  |  |  |  |  | | |
| Diffuse Type | 10-30 VDC | NPN | Detection distance | 50cm | 20-100cm | 50cm | 50cm | 20cm |
| | | | NO | CZ G24-3A50NA | CZ G30-3A70NA | CZ G33-3A10NA | CZ G35-3A50NA | CZ G36-3A20NA |
| | | | NC | CZ G24-3A50NB | CZ G30-3A70NB | CZ G33-3A10NB | CZ G35-3A50NB | CZ G36-3A20NB |
| | | NO+NC | CZ G24-3A50NC | CZ G30-3A70NC | CZ G33-3A10NC | CZ G35-3A50NC | CZ G36-3A20NC | |
| | PNP | NO | CZ G24-3A50PA | CZ G30-3A70PA | CZ G33-3A10PA | CZ G35-3A50PA | CZ G36-3A20PA | |
| | | NC | CZ G24-3A50PB | CZ G30-3A70PB | CZ G33-3A10PB | CZ G35-3A50PB | CZ G36-3A20PB | |
| | | NO+NC | CZ G24-3A50PC | CZ G30-3A70PC | CZ G33-3A10PC | CZ G35-3A50PC | CZ G36-3A20PC | |
| | 90-250 VAC | SCR Controlable silicon | NO | | CZ G30-2A70LA | | CZ G35-2A50LA | |
| | | | NC | | CZ G30-2A70LB | | CZ G35-2A50LB | |
| | Relay output | | | CZ G30-2A70LC | | CZ G35-2A50JC | | |
| Retroreflective | 10-30 VDC | NPN | Detection distance | 4m | 3m | 1m | 3m | 2m |
| | | | NO | CZ G24-3B4NA | CZ G30-3B3NA | CZ G33-3B1NA | CZ G35-3B3NA | CZ G36-3B2NA |
| | | | NC | CZ G24-3B4NB | CZ G30-3B3NB | CZ G33-3B1NB | CZ G35-3B3NB | CZ G36-3B2NB |
| | | NO+NC | CZ G24-3B4NC | CZ G30-3B3NC | CZ G33-3B1NC | CZ G35-3B3NC | CZ G36-3B2NC | |
| | PNP | NO | CZ G24-3B4PA | CZ G30-3B3PA | CZ G33-3B1PA | CZ G35-3B3PA | CZ G36-3B2PA | |
| | | NC | CZ G24-3B4PB | CZ G30-3B3PB | CZ G33-3B1PB | CZ G35-3B3PB | CZ G36-3B2PB | |
| | | NO+NC | CZ G24-3B4PC | CZ G30-3B3PC | CZ G33-3B1PC | CZ G35-3B3PC | CZ G36-3B2PC | |
| | 90-250 VAC | SCR Controlable silicon | NO | | CZ G30-2B3LA | | CZ G35-2B3LA | |
| | | | NC | | CZ G30-2B3LB | | CZ G35-2B3LB | |
| | Relay output | | | CZ G30-2B3JC | | CZ G35-2B3JC | | |
| Trough beam | 10-30 VDC | NPN | Detection distance | 5m | 10m | 3m | 5m | 5m |
| | | | NO | CZ G24-3C5NA | CZ G30-3C101NA | CZ G33-3C3NA | CZ G35-3C5NA | CZ G36-3C5NA |
| | | | NC | CZ G24-3C5NB | CZ G30-3C101NB | CZ G33-3C3NB | CZ G35-3C5NB | CZ G36-3C5NB |
| | | NO+NC | CZ G24-3C5NC | CZ G30-3C101NC | CZ G33-3C3NC | CZ G35-3C5NC | CZ G36-3C5NC | |
| | PNP | NO | CZ G24-3C5PA | CZ G30-3C101PA | CZ G33-3C3PA | CZ G35-3C5PA | CZ G36-3C5PA | |
| | | NC | CZ G24-3C5PB | CZ G30-3C101PB | CZ G33-3C3PB | CZ G35-3C5PB | CZ G36-3C5PB | |
| | | NO+NC | CZ G24-3C5PC | CZ G30-3C101PC | CZ G33-3C3PC | CZ G35-3C5PC | CZ G36-3C5PC | |
| | 90-250 VAC | SCR Controlable silicon | NO | | CZ G30-2C101LA | | CZ G35-2C5LA | |
| | | | NC | | CZ G30-2C101LB | | CZ G35-2C5LB | |
| | Relay output | | | CZ G30-2C101JC | | CZ G35-2C5JC | | |
| DC/SCR/ Control output | | DC:200mA、AC:300mA | | | | | | |
| DC/AC Consumption current | | DC<15mA、AC:<10mA | | | | | | |
| DC/AC Response time | | Dc<2ms、AC<20ms | | | | | | |
| Directional angle | | 3° -10° | | | | | | |
| Detected object | | transparent or opaque body | | | | | | |
| Working environment temperature | | -25℃~+55℃ | | | | | | |
| Intensity of illumination of working environment | | 10000LX Sunlight under 10000LX 3000LX incandescent lamp under 3000LX | | | | | | |
| Shell material | | Plastic | Plastic | Plastic | Metal | Metal | | |
| Protection grade | | IP54 | IP66 | IP54 | IP54 | IP54 | | |

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| Structural category | | Photoelectric switch | | | | | |
|--------------------------------------------------|------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------|---------------|
| Outward appearance code | | G40 | G44 | G50 | G54 | | |
| Outward appearance illustration | |  |  |  |  | | |
| Overall dimensions | |  |  |  |  | | |
| Diffuse Type | 10-30 VDC | NPN | Detection distance | 10cm-30cm | 30cm | 30cm 50cm | 20cm |
| | | | NO | CZ G40-3A10NA | CZ G44-3A30NA | CZ G50-3A30NA | CZ G54-3A20NA |
| | | | NC | CZ G40-3A10NB | CZ G44-3A30NB | CZ G50-3A30NB | CZ G54-3A20NB |
| | | NO+NC | CZ G40-3A10NC | CZ G44-3A30NC | CZ G50-3A30NC | CZ G54-3A20NC | |
| | | PNP | NO | CZ G40-3A10PA | CZ G44-3A30PA | CZ G50-3A30PA | CZ G54-3A20PA |
| | NC | | CZ G40-3A10PB | CZ G44-3A30PB | CZ G50-3A30PB | CZ G54-3A20PB | |
| | 90-250 VAC | SCR Controlable silicon | NO | | | | |
| | | | NC | | | | |
| | | Relay output | | | G50-2A30JC | | |
| | Retroreflective | 10-30 VDC | NPN | Detection distance | 3m | 3m | 4m |
| NO | | | | CZ G40-3B3NA | CZ G44-3B30NA | CZ G50-3B4NA | CZ G54-3B2NA |
| NC | | | | CZ G40-3B3NB | CZ G44-3B30NB | CZ G50-3B4NB | CZ G54-3B2NB |
| NO+NC | | | CZ G40-3B3NC | CZ G44-3B30NC | CZ G50-3B4NC | CZ G54-3B2NC | |
| PNP | | | NO | CZ G40-3B3PA | CZ G44-3B30PA | CZ G50-3B4PA | CZ G54-3B2PA |
| | | NC | CZ G40-3B3PB | CZ G44-3B30PB | CZ G50-3B4PB | CZ G54-3B2PB | |
| 90-250 VAC | | SCR Controlable silicon | NO | | | | |
| | | | NC | | | | |
| | | Relay output | | | G50-2B4JC | | |
| Trough beam | | 10-30 VDC | NPN | Detection distance | 4m | 5m | 5m |
| | NO | | | CZ G40-4C4NA | CZ G44-3C5NA | CZ G50-3C5NA | |
| | NC | | | CZ G40-4C4NB | CZ G44-3C5NB | CZ G50-3C5NB | CZ G54-3C5NA |
| | NO+NC | | CZ G40-4C4NC | CZ G44-3C5NC | CZ G50-3C5NC | CZ G54-3C5NB | |
| | PNP | | NO | CZ G40-4C4PA | CZ G44-3C5PA | CZ G50-3C5PA | CZ G54-3C5NC |
| | | NC | CZ G40-4C4PB | CZ G44-3C5PB | CZ G50-3C5PB | CZ G54-3C5PA | |
| | 90-250 VAC | SCR Controlable silicon | NO | | | CZ G50-2C5LA | CZ G54-3C5PB |
| | | | NC | | | | CZ G54-3C5PC |
| | | Relay output | | | CZ G50-2C5JC | | |
| | DC/SCR/ Control output | | DC:200mA AC:300mA relay:2A | | | | |
| DC/AC Consumption current | | DC<15mA AC:<10mA | | | | | |
| DC/AC Response time | | Dc<2ms AC<20ms | | | | | |
| Directional angle | | 3° -10° | | | | | |
| Detected object | | transparent or opaque body | | | | | |
| Working environment temperature | | -25°C ~ -55°C | | | | | |
| Intensity of illumination of working environment | | 10000LX | Sunlight under 10000LX | 3000LX | incandescent lamp under 3000LX | | |
| Shell material | | Metal | Metal | Plastic | Plastic | | |
| Protection grade | | IP50 | IP54 | IP54 | IP54 | | |

| Structural category | | Photoelectric switch | | | | | | |
|--------------------------------------------------|------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------|---------------|
| Outward appearance code | | G55 | G64 | G68 | G70 | G71 | | |
| Outward appearance illustration | |  |  |  |  |  | | |
| Overall dimensions | |  |  |  |  |  | | |
| Diffuse Type | 10-30 VDC | NPN | Detection distance | 20cm | 10cm | 30cm | 20-100cm | 50cm |
| | | | NO | CZ G55-3A20NA | CZ G64-3A10NA | CZ G68-3A30NA | CZ G70-3A20NA | CZ G71-3A50NA |
| | | | NC | CZ G55-3A20NB | CZ G64-3A10NB | CZ G68-3A30NB | CZ G70-3A20NB | CZ G71-3A50NB |
| | | NO+NC | CZ G55-3A20NC | CZ G64-3A10NC | CZ G68-3A30NC | CZ G70-3A20NC | CZ G71-3A50NC | |
| | | PNP | NO | CZ G55-3A20PA | CZ G64-3A10PA | CZ G68-3A30PA | CZ G70-3A20PA | CZ G71-3A50PA |
| | NC | | CZ G55-3A20PB | CZ G64-3A10PB | CZ G68-3A30PB | CZ G70-3A20PB | CZ G71-3A50PB | |
| | 90-250 VAC | SCR Controlable silicon | NO | | | | | |
| | | | NC | | | | | |
| | | Relay output | | | | | | |
| | Retroreflective | 10-30 VDC | NPN | Detection distance | 2m | 1.5m-2m | 2m | 2m |
| NO | | | | CZ G55-3B2NA | CZ G64-3B2NA | CZ G68-3B2NA | CZ G70-3B2NA | CZ G71-3B2NA |
| NC | | | | CZ G55-3B2NB | CZ G64-3B2NB | CZ G68-3B2NB | CZ G70-3B2NB | CZ G71-3B2NB |
| NO+NC | | | CZ G55-3B2NC | CZ G64-3B2NC | CZ G68-3B2NC | CZ G70-3B2NC | CZ G71-3B2NC | |
| PNP | | | NO | CZ G55-3B2PA | CZ G64-3B2PA | CZ G68-3B2PA | CZ G70-3B2PA | CZ G71-3B2PA |
| | | NC | CZ G55-3B2PB | CZ G64-3B2PB | CZ G68-3B2PB | CZ G70-3B2PB | CZ G71-3B2PB | |
| 90-250 VAC | | SCR Controlable silicon | NO | | | | | |
| | | | NC | | | | | |
| | | Relay output | | | | | | |
| Trough beam | | 10-30 VDC | NPN | Detection distance | 4m | 3m | 5m | 5m |
| | NO | | | CZ G55-3C4NA | CZ G64-3C3NA | CZ G68-3C5NA | CZ G70-3C5NA | CZ G71-3C5NA |
| | NC | | | CZ G55-3C4NB | CZ G64-3C3NB | CZ G68-3C5NB | CZ G70-3C5NB | CZ G71-3C5NB |
| | NO+NC | | CZ G55-3C4NC | CZ G64-3C3NC | CZ G68-3C5NC | CZ G70-3C5NC | CZ G71-3C5NC | |
| | PNP | | NO | CZ G55-3C4PA | CZ G64-3C3PA | CZ G68-3C5PA | CZ G70-3C5PA | CZ G71-3C5PA |
| | | NC | CZ G55-3C4PB | CZ G64-3C3PB | CZ G68-3C5PB | CZ G70-3C5PB | CZ G71-3C5PB | |
| | 90-250 VAC | SCR Controlable silicon | NO | | | | | |
| | | | NC | | | | | |
| | | Relay output | | | | | | |
| | DC/SCR/ Control output | | DC:200mA AC:300mA | | | | | |
| DC/AC Consumption current | | DC<15mA AC:<10mA | | | | | | |
| DC/AC Response time | | Dc<2ms AC<20ms | | | | | | |
| Directional angle | | 3° -10° | | | | | | |
| Detected object | | transparent or opaque body | | | | | | |
| Working environment temperature | | -25°C ~ +55°C | | | | | | |
| Intensity of illumination of working environment | | 10000LX | Sunlight under 10000LX | 3000LX | incandescent lamp under 3000LX | | | |
| Shell material | | Metal | Plastic | Plastic | Plastic | Plastic | | |
| Protection grade | | IP54 | IP66 | IP54 | IP54 | IP54 | | |

PHOTOELECTRIC SWITCH




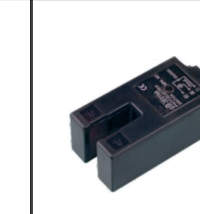
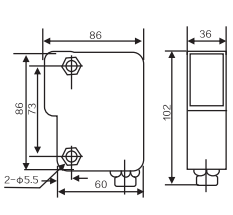
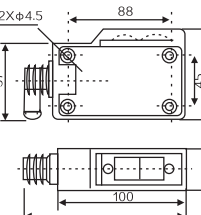
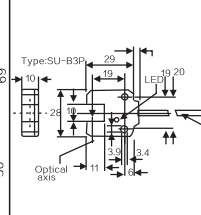
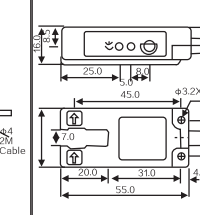
PHOTOELECTRIC SWITCH




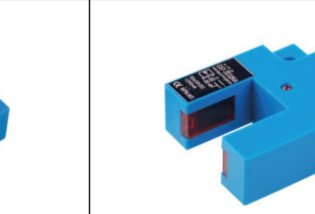
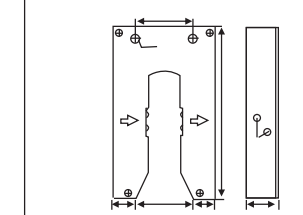
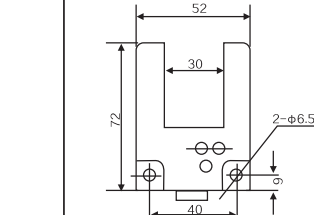
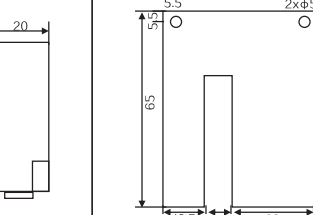
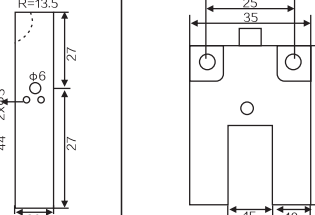
| Structural category | | Photoelectric switch | | | | | | |
|--------------------------------------------------|---------------------------|----------------------------------------------------------------------|----------------------------|--------------------|----------------|----------------|----------------|----------------|
| Outward appearance code | | G72 | G180 | G75 | G76 | | | |
| Outward appearance illustration | | | | | | | | |
| Overall dimensions | | | | | | | | |
| Diffuse Type | 10-30 VDC | NPN | Detection distance | 40cm | 10cm | 80cm | 1m | |
| | | | NO | CZ G72-3A40NA | CZ G180-3A10NA | CZ G75-3A80NA | CZ G76-3A1NA | |
| | | | NC | CZ G72-3A40NB | CZ G180-3A10NB | CZ G75-3A80NB | CZ G76-3A1NB | |
| | | NO+NC | CZ G72-3A40NC | CZ G180-3A10NC | CZ G75-3A80NC | CZ G76-3A1NC | | |
| | | PNP | NO | CZ G72-3A40PA | CZ G180-3A10PA | CZ G75-3A80PA | CZ G76-3A1PA | |
| | | | NC | CZ G72-3A40PB | CZ G180-3A10PB | CZ G75-3A80PB | CZ G76-3A1PB | |
| | NO+NC | | CZ G72-3A40PC | CZ G180-3A10PC | CZ G75-3A80PC | CZ G76-3A1PC | | |
| | 90-250 VAC | SCR Controlable silicon | NO | | CZ G180-2A10LA | CZ G75-2A80LA | CZ G76-2A1LA | |
| | | | NC | | CZ G180-2A10LB | CZ G75-2A80LB | CZ G76-2A1LB | |
| | | | Relay output | | | CZ G75-2A80JC | CZ G76-2A1JC | |
| | Retroreflective | 10-30 VDC | NPN | Detection distance | 3m | 2m | 3m | 5m |
| | | | | NO | CZ G72-3B3NA | CZ G180-3B2NA | CZ G75-3B3NA | CZ G76-3B5NA |
| NC | | | | CZ G72-3B3NB | CZ G180-3B2NB | CZ G75-3B3NB | CZ G76-3B5NB | |
| NO+NC | | | CZ G72-3B3NC | CZ G180-3B2NC | CZ G75-3B3NC | CZ G76-3B5NC | | |
| PNP | | | NO | CZ G72-3B3PA | CZ G180-3B2PA | CZ G75-3B3PA | CZ G76-3B5PA | |
| | | | NC | CZ G72-3B3PB | CZ G180-3B2PB | CZ G75-3B3PB | CZ G76-3B5PB | |
| | | NO+NC | CZ G72-3B3PC | CZ G180-3B2PC | CZ G75-3B3PC | CZ G76-3B5PC | | |
| 90-250 VAC | | SCR Controlable silicon | NO | | CZ G180-2B2LA | CZ G75-2B3LA | CZ G76-2B5LA | |
| | | | NC | | CZ G180-2B2LB | CZ G75-2B3LB | CZ G76-2B5LB | |
| | | | Relay output | | | CZ G75-2B3JC | CZ G76-2B5JC | |
| Trough beam | | 10-30 VDC | NPN | Detection distance | 5m | 5m | 8m | 10m-50m |
| | | | | NO | CZ G72-3C5NA | CZ G180-3C5NA | CZ G75-3C8NA | CZ G76-3C101NA |
| | NC | | | CZ G72-3C5NB | CZ G180-3C5NB | CZ G75-3C8NB | CZ G76-3C101NB | |
| | NO+NC | | CZ G72-3C5NC | CZ G180-3C5NC | CZ G75-3C8NC | CZ G76-3C101NC | | |
| | PNP | | NO | CZ G72-3C5PA | CZ G180-3C5PA | CZ G75-3C8PA | CZ G76-3C101PA | |
| | | | NC | CZ G72-3C5PB | CZ G180-3C5PB | CZ G75-3C8PB | CZ G76-3C101PB | |
| | | NO+NC | CZ G72-3C5PC | CZ G180-3C5PC | CZ G75-3C8PC | CZ G76-3C101PC | | |
| | 90-250 VAC | SCR Controlable silicon | NO | | CZ G180-2C5LA | CZ G75-2C8LA | CZ G76-2C101LA | |
| | | | NC | | CZ G180-2C5LB | CZ G75-2C8LB | CZ G76-2C101LB | |
| | | | Relay output | | | CZ G75-2C8JC | CZ G76-2C101JC | |
| | DC/SCR/ Control output | | DC:200mA AC:300mA relay:2A | | | | | |
| | DC/AC Consumption current | | DC<15mA AC:<10mA | | | | | |
| DC/AC Response time | | Dc<2ms AC<20ms | | | | | | |
| Directional angle | | 3° -10° | | | | | | |
| Detected object | | transparent or opaque body | | | | | | |
| Working environment temperature | | -25°C ~ +55°C | | | | | | |
| Intensity of illumination of working environment | | 10000LX Sunlight under 10000LX 3000LX incandescent lamp under 3000LX | | | | | | |
| Shell material | | Metal Plastic Metal Plastic | | | | | | |
| Protection grade | | IP54 IP66 IP54 IP54 | | | | | | |

| Structural category | | 光电开关 Photoelectric switch | | | | | | |
|--------------------------------------------------|---------------------------|----------------------------------------------------------------------|--------------------|--------------------|---------------|----------------|----------------|----------------|
| Outward appearance code | | G77 | G78 | G80 | G85 | GEN | | |
| Outward appearance illustration | | | | | | | | |
| Overall dimensions | | | | | | | | |
| Diffuse Type | 10-30 VDC | NPN | Detection distance | 30cm | 40cm | 80cm | 1m | |
| | | | NO | CZ G77-3A30NA | CZ G78-3A40NA | CZ G80-3A80NA | CZ G85-3A1NA | |
| | | | NC | CZ G77-3A30NB | CZ G78-3A40NB | CZ G80-3A80NB | CZ G85-3A1NB | |
| | | NO+NC | CZ G77-3A30NC | CZ G78-3A40NC | CZ G80-3A80NC | CZ G85-3A1NC | | |
| | | PNP | NO | CZ G77-3A30PA | CZ G78-3A40PA | CZ G80-3A80PA | CZ G85-3A1PA | |
| | | | NC | CZ G77-3A30PB | CZ G78-3A40PB | CZ G80-3A80PB | CZ G85-3A1PB | |
| | NO+NC | | CZ G77-3A30PC | CZ G78-3A40PC | CZ G80-3A80PC | CZ G85-3A1PC | | |
| | 90-250 VAC | SCR Controlable silicon | NO | | CZ G80-2A80LA | CZ G85-2A1LA | | |
| | | | NC | | CZ G80-2A80LB | CZ G85-2A1LB | | |
| | | | Relay output | | | CZ G80-2A80JC | CZ G85-2A1JC | |
| | Retroreflective | 10-30 VDC | NPN | Detection distance | 3m | 2m | 3m | 5m |
| | | | | NO | CZ G77-3B3NA | CZ G78-3B2NA | CZ G80-3B3NA | CZ G85-3B5NA |
| NC | | | | CZ G77-3B3NB | CZ G78-3B2NB | CZ G80-3B3NB | CZ G85-3B5NB | |
| NO+NC | | | CZ G77-3B3NC | CZ G78-3B2NC | CZ G80-3B3NC | CZ G85-3B5NC | | |
| PNP | | | NO | CZ G77-3B3PA | CZ G78-3B2PA | CZ G80-3B3PA | CZ G85-3B5PA | |
| | | | NC | CZ G77-3B3PB | CZ G78-3B2PB | CZ G80-3B3PB | CZ G85-3B5PB | |
| | | NO+NC | CZ G77-3B3PC | CZ G78-3B2PC | CZ G80-3B3PC | CZ G85-3B5PC | | |
| 90-250 VAC | | SCR Controlable silicon | NO | | CZ G80-2B3LA | CZ G85-2B5LA | | |
| | | | NC | | CZ G80-2B3LB | CZ G85-2B5LB | | |
| | | | Relay output | | | CZ G80-2B3JC | CZ G85-2B5JC | |
| Trough beam | | 10-30 VDC | NPN | Detection distance | 5m | 5m | 5m | 10m |
| | | | | NO | CZ G77-3C5NA | CZ G78-3C5NA | CZ G80-3C5NA | CZ G85-3C101NA |
| | NC | | | CZ G77-3C5NB | CZ G78-3C5NB | CZ G80-3C5NB | CZ G85-3C101NB | |
| | NO+NC | | CZ G77-3C5NC | CZ G78-3C5NC | CZ G80-3C5NC | CZ G85-3C101NC | | |
| | PNP | | NO | CZ G77-3C5PA | CZ G78-3C5PA | CZ G80-3C5PA | CZ G85-3C101PA | |
| | | | NC | CZ G77-3C5PB | CZ G78-3C5PB | CZ G80-3C5PB | CZ G85-3C101PB | |
| | | NO+NC | CZ G77-3C5PC | CZ G78-3C5PC | CZ G80-3C5PC | CZ G85-3C101PC | | |
| | 90-250 VAC | SCR Controlable silicon | NO | | CZ G80-2C5LA | CZ G85-2C101LA | | |
| | | | NC | | CZ G80-2C5LB | CZ G85-2C101LB | | |
| | | | Relay output | | | CZ G80-2C5JC | CZ G85-2C101JC | |
| | DC/SCR/ Control output | | DC:200mA AC:300mA | | | | | |
| | DC/AC Consumption current | | DC<15mA AC:<10mA | | | | | |
| DC/AC Response time | | DC<2ms AC<20ms | | | | | | |
| Directional angle | | 3° -10° | | | | | | |
| Detected object | | transparent or opaque body | | | | | | |
| Working environment temperature | | -25°C ~ +55°C | | | | | | |
| Intensity of illumination of working environment | | 10000LX Sunlight under 10000LX 3000LX incandescent lamp under 3000LX | | | | | | |
| Shell material | | Plastic Plastic Plastic Metal Plastic | | | | | | |
| Protection grade | | IP54 IP54 IP54 IP54 IP54 | | | | | | |

PHOTOELECTRIC SWITCH

PHOTOELECTRIC SWITCH

| Structural category | | Photoelectric switch | | | | | |
|--------------------------------------------------|---------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-----------------|---------------|
| Outward appearance code | | G100 | G139 | G51 | G56 | | |
| Outward appearance illustration | |  |  |  |  | | |
| Overall dimensions | |  |  |  |  | | |
| Diffuse Type | 10-30 VDC | NPN | Detection distance | 1m | 1m | | |
| | | | NO | CZ G100-3A1NA | CZ G139-3A1NA | | |
| | | | NC | CZ G100-3A1NB | CZ G139-3A1NB | | |
| | | NO+NC | CZ G100-3A1NC | CZ G139-3A1NC | | | |
| | | PNP | NO | CZ G100-3A1PA | CZ G139-3A1PA | | |
| | | | NC | CZ G100-3A1PB | CZ G139-3A1PB | | |
| | NO+NC | | CZ G100-3A1PC | CZ G139-3A1PC | | | |
| | 90-250 VAC | SCR Controlable silicon | NO | CZ G100-2A1LA | CZ G139-2A1LA | | |
| | | | NC | CZ G100-2A1LB | CZ G139-2A1LB | | |
| | | Relay output | CZ G100-2A1JC | CZ G139-2A1JC | | | |
| | Retroreflective | 10-30 VDC | NPN | Detection distance | 5m | 5m | |
| | | | | NO | CZ G100-3B5NA | CZ G139-3B5NA | |
| NC | | | | CZ G100-3B5NB | CZ G139-3B5NB | | |
| NO+NC | | | CZ G100-3B5NC | CZ G139-3B5NC | | | |
| PNP | | | NO | CZ G100-3B5PA | CZ G139-3B5PA | | |
| | | | NC | CZ G100-3B5PB | CZ G139-3B5PB | | |
| | | NO+NC | CZ G100-3B5PC | CZ G139-3B5PC | | | |
| 90-250 VAC | | SCR Controlable silicon | NO | CZ G100-2B5LA | CZ G139-2B5LA | | |
| | | | NC | CZ G100-2B5LB | CZ G139-2B5LB | | |
| | | Relay output | CZ G100-2B5JC | CZ G139-2B5JC | | | |
| Through beam | | 10-30 VDC | NPN | Detection distance | 10m | 10m | 1cm |
| | | | | NO | CZ G100-3C101NA | CZ G139-3C101NA | CZ G51-3E01NA |
| | NC | | | CZ G100-3C101NB | CZ G139-3C101NB | CZ G51-3E01NB | |
| | NO+NC | | CZ G100-3C101NC | CZ G139-3C101NC | CZ G51-3E01NC | | |
| | PNP | | NO | CZ G100-3C101PA | CZ G139-3C101PA | CZ G51-3E01PA | |
| | | | NC | CZ G100-3C101PB | CZ G139-3C101PB | CZ G51-3E01PB | |
| | | NO+NC | CZ G100-3C101PC | CZ G139-3C101PC | CZ G51-3E01PC | | |
| | 90-250 VAC | SCR Controlable silicon | NO | CZ G100-2C101LA | CZ G139-2C101LA | | |
| | | | NC | CZ G100-2C101LB | CZ G139-2C101LB | | |
| | | Relay output | CZ G100-2C101JC | CZ G139-2C101JC | | | |
| | DC/SCR/ Control output | | DC:200mA, AC:300mA relay:2A | | | | |
| | DC/AC Consumption current | | DC<15mA, AC:<10mA | | | | |
| DC/AC Response time | | DC<2mS, AC<20ms | | | | | |
| Directional angle | | 3° -10° | | | | | |
| Detected object | | transparent or opaque body | | | | | |
| Working environment temperature | | -25℃ ~+55℃ | | | | | |
| Intensity of illumination of working environment | | 10000LX | Sunlight under 10000LX | 3000LX | incandescent lamp under 3000LX | | |
| Shell material | | Metal | Aluminum/plastic | Plastic | Plastic | | |
| Protection grade | | IP54 | IP54 | IP54 | IP54 | | |

| Structural category | | Photoelectric switch | | | | | |
|--------------------------------------------------|-----------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------|---------------|
| Outward appearance code | | G115 | G63 | G65 | G57 | | |
| Outward appearance illustration | |  |  |  |  | | |
| Overall dimensions | |  |  |  |  | | |
| Diffuse Type | 10-30 VDC | NPN | Detection distance | 25mm | 3cm | 1cm | |
| | | | NO | CZ G115-3E25NA | CZ G63-3E03NA | CZ G65-3E01NA | |
| | | | NC | CZ G115-3E25NB | CZ G63-3E03NB | CZ G65-3E01NB | |
| | | NO+NC | CZ G115-3E25NC | CZ G63-3E03NC | CZ G65-3E01NC | | |
| | | PNP | NO | CZ G115-3E25PA | CZ G63-3E03PA | CZ G65-3E01PA | |
| | | | NC | CZ G115-3E25PB | CZ G63-3E03PB | CZ G65-3E01PB | |
| | NO+NC | | CZ G115-3E25PC | CZ G63-3E03PC | CZ G65-3E01PC | | |
| | 90-250 VAC | SCR Controlable silicon | NO | | | | |
| | | | NC | | | | |
| | | Relay output | | | | | |
| | Retroreflective | 10-30 VDC | NPN | Detection distance | 25mm | 3cm | 1cm |
| | | | | NO | CZ G115-3E25NA | CZ G63-3E03NA | CZ G65-3E01NA |
| NC | | | | CZ G115-3E25NB | CZ G63-3E03NB | CZ G65-3E01NB | |
| NO+NC | | | CZ G115-3E25NC | CZ G63-3E03NC | CZ G65-3E01NC | | |
| PNP | | | NO | CZ G115-3E25PA | CZ G63-3E03PA | CZ G65-3E01PA | |
| | | | NC | CZ G115-3E25PB | CZ G63-3E03PB | CZ G65-3E01PB | |
| | | NO+NC | CZ G115-3E25PC | CZ G63-3E03PC | CZ G65-3E01PC | | |
| 90-250 VAC | | SCR Controlable silicon | NO | | | | |
| | | | NC | | | | |
| | | Relay output | | | | | |
| DC/SCR/ Control output | | DC:200mA AC:300mA | | | | | |
| DC/AC Consumption current | | DC<15mA AC:<10mA | | | | | |
| DC/AC Response time | | DC<2mS AC<20mS | | | | | |
| Directional angle | | 3° ~-10° | | | | | |
| Detected object | | transparent or opaque body | | | | | |
| Working environment temperature | | -25℃ ~+55℃ | | | | | |
| Intensity of illumination of working environment | | 10000LX | Sunlight under 10000LX | 3000LX | incandescent lamp under 3000LX | | |
| Shell material | | Metal | Metal Plastic | Plastic | Plastic | | |
| Protection grade | | IP64 | IP54 | | | | |