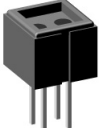
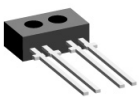
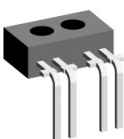
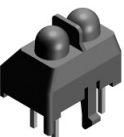

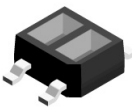
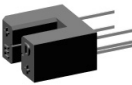
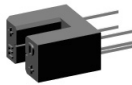
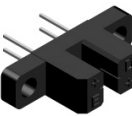
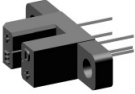
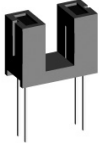
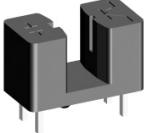
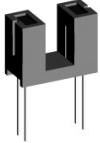


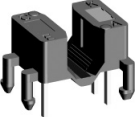

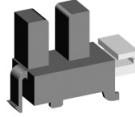

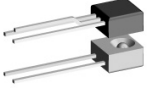
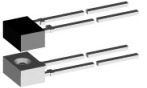


| PRODUCT DESCRIPTION | TYPE | DISTANCE [mm] | APERTURE RESOLUTION [mm] | | I _c [mA] | @ I _F [mA] | V _{CEO} V _{CC} [V] | REMARKS |
|---|-----------|---------------|--------------------------|---|---------------------|-----------------------|--------------------------------------|------------|
| Optical Sensors Top view 10 x 10 mm Package Reflective Optical Sensors Transistor Output  | CNY70 | 0.3 | - | - | >0.3 | 20 | >32 | |
| Optical Sensors Reflex Sensor SD 1 mm Package Reflective Optical Sensors Transistor Output  | TCRT1000 | 1.0 | - | - | >0.3 | 20 | >32 | SMD |
| Optical Sensors Reflex Sensor SD 1 mm, formed leads Package Reflective Optical Sensors Transistor Output  | TCRT1010 | 1.0 | - | - | >0.3 | 20 | >32 | SMD |
| Optical Sensors Reflex Sensor SD 12 mm Package Reflective Optical Sensors Transistor Output  | TCRT5000 | 12.0 | - | - | >0.35 | 10 | >32 | |
| Optical Sensors Reflex Sensor SD 12 mm, long leads Package Reflective Optical Sensors Transistor Output  | TCRT5000L | 12.0 | - | - | >0.35 | 10 | >32 | long leads |

| PRODUCT DESCRIPTION | TYPE | DISTANCE [mm] | APERTURE RESOLUTION [mm] | | I _c [mA] | @ I _F [mA] | V _{CEO} V _{CC} [V] | REMARKS | | |
|--|----------|---------------|--------------------------|-----|---------------------|-----------------------|---|----------------------|---|-------------------|
| Optical Sensors SMD Reflex Sensor Package Reflective Optical Sensors Transistor Output  | TCNT1000 | 1 | - | - | >0.1 | 10 | 30 | SMD | | |
| PRODUCT DESCRIPTION | TYPE | GAP [mm] | APERTURE RESOLUTION [mm] | | I _c [mA] | @ I _F [mA] | I _{FT} [mA] | @ V _S [V] | V _{CEO} V _{CC} [V] | REMARKS |
| Optical Sensors U-Shape, Gap 3.1, Aperture 1.0 Package Transmissive Optical Sensors Schmitt Trigger Output  | TCSS1100 | 3.1 | 1 | 0.6 | - | - | <10 | 5 | 4.5 - 16 | digital interface |
| Optical Sensors U-Shape, Gap 3.1, Aperture 1.0 Package Transmissive Optical Sensors Transistor Output  | TCST1103 | 3.1 | 1 | 0.6 | 4 (>2) | 20 | - | - | 70 | |
| | TCST1202 | 3.1 | 0.5 | 0.4 | 2 (>1) | 20 | - | - | 70 | |
| | TCST1300 | 3.1 | 0.25 | 0.2 | 0.5 (>0.25) | 20 | - | - | 70 | |
| Optical Sensors U-Shape, Gap 3.1 Package Transmissive Optical Sensors Transistor Output  | TCST2103 | 3.1 | 1 | 0.6 | 4 (>2) | 20 | - | - | 70 | mounting flag |
| | TCST2202 | 3.1 | 0.5 | 0.4 | 2 (>1) | 20 | - | - | 70 | mounting flag |
| | TCST2300 | 3.1 | 0.25 | 0.2 | 0.5 (>0.25) | 20 | - | - | 70 | mounting flag |

| PRODUCT DESCRIPTION | TYPE | GAP [mm] | APERTURE RESOLUTION [mm] | | I _C [mA] | @ I _F [mA] | I _{FT} [mA] | @ V _S [V] | V _{CEO} V _{CC} [V] | REMARKS |
|--|-----------|----------|--------------------------|-----|---------------------|-----------------------|----------------------|----------------------|---|-------------------|
| Optical Sensors U-Shape, Gap 3.1, Aperture 1.0 Package Transmissive Optical Sensors Schmitt Trigger Output  | TCSS2100 | 3.1 | 1 | 0.6 | - | - | <10 | 5 | 4.5 - 16 | digital interface |
| Optical Sensors U-Shape, Gap 5, Aperture 0.5 Package Transmissive Optical Sensors Transistor Output  | TCST1210 | 5 | - | 0.4 | 2 (>0.5) | 20 | - | - | 30 | |
| Optical Sensors U-Shape, Gap 2.8, Aperture 0.5 Package Transmissive Optical Sensors Transistor Output  | TCST1030 | 3.1 | - | 0.8 | 2.5 (>1.2) | 10 | - | - | 70 | |
| Optical Sensors U-Shape, Gap 5, Aperture 0.5 Package Transmissive Optical Sensors Transistor Output  | TCST1230 | 2.8 | - | 0.4 | 1 (>0.5) | 20 | - | - | 70 | |
| Optical Sensors U-Shape, Gap 3, long leads Package Transmissive Optical Sensors Transistor Output  | TCST1030L | 3.1 | - | 0.8 | 2.5 (>1.2) | 10 | - | - | 70 | |

| PRODUCT DESCRIPTION | TYPE | GAP [mm] | APERTURE RESOLUTION [mm] | | I _c [mA] | @ I _F [mA] | I _{FT} [mA] | @ V _S [V] | V _{CEO} V _{CC} [V] | REMARKS |
|---|-------------|----------|--------------------------|------|---------------------|-----------------------|----------------------|----------------------|---|--|
| Optical Sensors SMD, Gap 2, Aperture 0.3 Package Transmissive Optical Sensors Transistor Output  | TCPT1200 | 2 | 0.3 | 0.24 | 0.5 (>0.3) | 15 | | | 70 | SMD |
| | TCPT1200X01 | 2 | 0.3 | 0.24 | 0.5 (>0.3) | 15 | | | 70 | SMD |
| Optical Sensors U-Shape, Gap 2.8 Package Transmissive Optical Sensors Transistor Output  | TCST5123 | 2.8 | - | 0.8 | 5 (>2.4) | 20 | - | - | 70 | |
| Optical Sensors SMD Dual, Gap 2, Aperture 0.3 Package Transmissive Optical Sensors Transistor Output  | TCUT1200 | 2 | 0.3 | 0.24 | 0.5 (>0.3) | 15 | - | - | 70 | SMD, dual channel |
| | TCUT1200X01 | 2 | 0.3 | 0.24 | 0.5 (>0.3) | 15 | - | - | 70 | SMD, dual channel |
| Optical Sensors U-Shape, Connector, Gap 5, Aperture 0.5 Package Transmissive Optical Sensors Schmitt Trigger Output  | TCYS5201 | 5 | 0.5 | 0.4 | - | - | <10 | 5 | 4.5 - 16 | digital interface, connector integrated |
| Optical Sensors SHU-Shape, Gap 2.7, Aperture 0.5 Package Transmissive Optical Sensors Transistor Output  | TCST5250 | 2.7 | 0.5 | 0.4 | 1.5 (>0.5) | 20 | - | - | 70 | |

| PRODUCT DESCRIPTION | TYPE | GAP [MM] | APERTURE RESOLUTION [mm] | | I _c [mA] | @ I _F [mA] | I _{FT} [mA] | @ V _S [V] | V _{CEO} V _{CC} [V] | REMARKS |
|--|----------|----------|--------------------------|----|---------------------|-----------------------|----------------------|----------------------|---|----------------------------------|
| Optical Sensors Matchable Pairs Package Transmissive Optical Sensors Schmitt Trigger Output  | TCZS8100 | 4 | - | - | | | <10 | 5 | 4.5 - 16 | digital interface, matched pairs |
| Optical Sensors Matchable Pairs Package Transmissive Optical Sensors Transistor Output  | TCZT8020 | <0.4 | 0.025 | 20 | 0.5 (>0.25) | 20 | - | - | 70 | matched pairs |