

TRF series

Standard model

VRF-T series

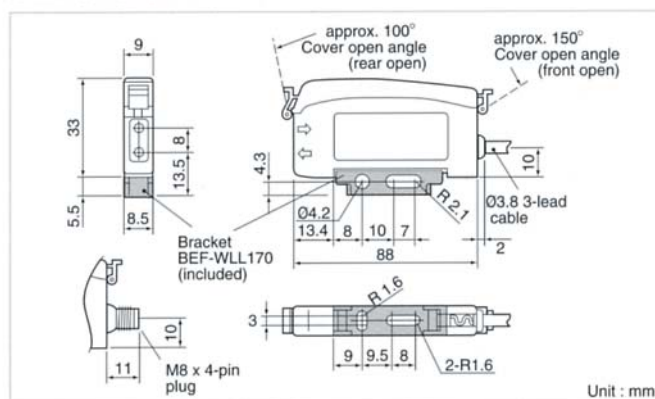
With PSV (Precise Sensitivity Volume)

A simple to use Teach-in amplifier. This sensor features Pushbutton Teach plus a Precise Sensitivity adjustment for fine adjustment.



Teach-in type TRF series
VRF-T series similar appearance

Dimensions



Specifications

| Type | | | TRF Series - Teach-In Type | | VRF-T Series - Teach-In with PSV adjustment | |
|-------------------------|------------|-----|--|---------------------------|---|---------------------------|
| | | | Standard Frequency Model | Different Frequency Model | Standard Frequency Model | Different Frequency Model |
| Model Number | Cable Type | NPN | TRF-N | TRF-ZN | VRF-TN | VRF-ZTN |
| | | PNP | TRF-P | TRF-ZNP | VRF-TP | VRF-ZTP |
| | M8 QD Type | NPN | TRF-CN | TRF-ZCN | VRF-TCN | VRF-ZTCN |
| | | PNP | TRF-CP | TRF-ZCNP | VRF-TCP | VRF-ZTCP |
| Response Time | | | 500 μ sec. | 700 μ sec. | 500 μ sec. | 700 μ sec. |
| Applicable Fiber Cables | | | NF series fiber cables, See catalog for choices | | | |
| Supply Voltage | | | 10 ~ 30 VDC incl. 10% ripple | | | |
| Current Consumption | | | 50 mA max. | | | |
| Control Output | | | NPN or PNP Open Collector Transistor, 100 mA / 30 VDC Max. | | | |
| Operation Mode | | | Selectable Light-On or Dark-On operation | | | |
| Light Source | | | Red LED | | | |
| Sensitivity Adjustment | | | Teach-In button | | Teach-In button with PSV adjust potentiometer | |
| Indicators | | | Output (Orange), Stability (Green) | | | |
| Timer | | | Off delay, 40 msec. fixed | | | |
| Conformity | | | JIS, UL, CE, VDE (Class 3) | | | |
| Circuit Protection | | | Reverse Polarity Protection, Overcurrent Protection | | | |
| Ambient Temperature | | | Operation -25° to +55° C | | | |
| Ambient Humidity | | | 35 - 85% RH (no freezing) | | | |
| Light Immunity | | | Sunlight: 10,000 lux, Incandescent Lamp: 3,000 lux | | | |
| Noise Resistance | | | EN 50082-2 | | | |
| Vibration Resistance | | | 50 G, X-Y-Z 2 hours | | | |
| Shock Resistance | | | 10 - 55 Hz. amplitude 1.5mm, X-Y-Z for 2 hours | | | |
| IP Protection | | | IEC IP 50 | | | |
| Material | | | Case: ABS, Cover: PC | | | |
| Accessories | | | Mounting Bracket | | | |

Note: Cables are not included with the QD sensor, please order separately.