| T Series | Applicable | CAC4 CKV2 | CMA2 | CMK2 | HCM | JSC3 | JSC4 | JSG | JSK2 | JSM2 | LCG | LCR | LCW |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
|  | cylinder | LCX | MRG2 | MRL2 | RCC2 | RCS | RRC | SCA2 | SCG | SCM | SCP*3 | SCS2 | SRM3 |
|  |  | SSD2 SSD |  |  |  |  |  |  |  |  |  |  |  |
|  |  | SSG | STG | STS/STL | STK | UCA2 | UCAC2 | ULK | Hand chuck |  |  |  |  |

## Specifications


${ }^{*} 1$ : The above max. load current is 20 mA at $25^{\circ} \mathrm{C}$. The current is lower than 20 mA if the operating ambient temperature around the switch is higher than $25^{\circ} \mathrm{C}$. ( 5 to 10 mA at $60^{\circ} \mathrm{C}$ )
*2: T2HR3, T2VR3, T3PH and T3PV switches are available as custom order when installed onto cylinders.
*3: T2JH and T2JV switches are available as custom order when installed onto SRL3 ( $\varphi 32$ to $\varphi 100$ ), MRL2, LCR, UCAC2 or Hand-chuck
*4: Switchs are limited depending on cylinder. Refer to each cylinder page for the details.
*5: Internal resistance $0.5 \Omega$ or less.
*6: Refer to Intro Page 80 for contact protective measures.

| T Series | AC magneitic field | If Appiciabe | CAC4 | JSC3 | JSC4 | JSG | SCA2 | SCG | SCM |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | SCS2 | SRG3 | SRL3 | SRM3 | SRT3 | SSD | SSD2 |
|  |  |  | SSG | STG | STS/STL | STK | UCAC2 |  |  |

## Specifications

## T2YD

| Descriptions | Proximity 2-wire |  |  |
| :---: | :---: | :---: | :---: |
|  | T2YD | T2YDT | T2YDU (custom order) |
| Applications | Dedicated for programmable controller |  |  |
| Indicator lamp | Red/green LED (Lit when ON) |  |  |
| Load voltage | 24 VDC $\pm 10 \%$ |  |  |
| Load current | 5 to 20 mA |  |  |
| Internal voltage drop | 6 V or less |  |  |
| Leakage current | 1.0 mA or less |  |  |
| Output delay time *1 <br> (Delay ON, delay OFF) | 60 ms or less |  |  |
| Lead wire length | 1 m (oil resistant vinyl cabtyre cable $\varphi 6,0.5 \mathrm{~mm}^{2} \times 2$-conductor) *2 | 1 m (flame-resistant vinyl cabtyre cable $\varphi 6,0.5 \mathrm{~mm}^{2} \times 2$-conductor) *2 | 0.3 m (flame-resistant vinyl cabtyre cable with M12 cable connector, AWG20, 2-conductor) |
| Insulation resistance | $100 \mathrm{M} \Omega$ and over with 500 VDC megger |  |  |
| Withstand voltage | No failure after 1 minute of 1,000 VAC application. |  |  |
| Shock resistance | $980 \mathrm{~m} / \mathrm{s}^{2}$ |  |  |
| Ambient temperature | $-10\left(14^{\circ} \mathrm{F}\right)$ to $+60^{\circ} \mathrm{C}\left(140^{\circ} \mathrm{F}\right)$ |  |  |
| Degree of protection | JIS C0920 (water-tight), IEC standards IP67, oil resistance |  |  |
| Weight g | $1 \mathrm{~m}: 613 \mathrm{~m}: 1665 \mathrm{~m}: 272$ |  | 35 |

*1: Indicates the time from magnetic sensor detection of the piston magnet until switch output.
*2: 3 m and 5 m lead wires are available as options.
*3: As the switch for AC magnetic field (T2YD*) is for spot welding machine, it cannot be used with arc welding machine (DC).

| T Series | Cutting oil | Applicable |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| cylinder |  |  |$\quad$| CMK2-G2/3 | HRL-G2/3 | SCA2-G2/3 | SCG-G2/3 | SRL3-J |
| :--- | :--- | :--- | :--- | :--- |
| SSD-G2/3 | SSD2-G2/3 | STG-G2/3 | STS/STL-G2/3 |  |

## Specifications

T*YLH

| Descriptions | Proximity 2-wire | Proximity 3-wire |
| :---: | :---: | :---: |
|  | T2YLH, T2YLV | T3YLH, T3YLV |
| Applications | Dedicated for programmable controller | Programmable controller, relay |
| Output method | - | NPN output |
| Power supply voltage | - | 10 to 28 VDC |
| Load voltage | 10 to 30 VDC | 30 VDC or less |
| Load current | 5 to 20 mA | 50 mA or less |
| Current consumption | - | 10 mA or less at 24 VDC (when ON) |
| Internal voltage drop | 4 V or less | 0.5 V or less |
| Leakage current | 1 mA or less | $10 \mu \mathrm{~A}$ or less |
| Indicator lamp | Red/green LED (Lit when ON) |  |
| Lead wire | Oil resistant vinyl cabtyre cable $0.3 \mathrm{~mm}^{2}, 2$-conductor 1 m | Oil resistant vinyl cabtyre cable $0.2 \mathrm{~mm}^{2}, 3$-conductor 1 m |
| Insulation resistance | $100 \mathrm{M} \Omega$ and over with 500 VDC megger |  |
| Withstand voltage | No failure after 1 minute of 1,000 VAC application. |  |
| Shock resistance | $980 \mathrm{~m} / \mathrm{s}^{2}$ |  |
| Hysteresis | 1.5 mm or less |  |
| Ambient temperature | $-10\left(14^{\circ} \mathrm{F}\right)$ to $+60^{\circ} \mathrm{C}\left(140^{\circ} \mathrm{F}\right)$ |  |
| Degree of protection | IEC Standards IP67, JIS C0920 (water-tight), oil resistance |  |
| Weight g | $1 \mathrm{~m}: 33 \mathrm{3m}$ :87 $5 \mathrm{~m}: 142$ |  |

- $T^{*} H / T^{*} W H$ Series
(lead wire straight)
Set screw (M2.5)


T*V/T*WV Series (lead wire L-shaped)



- T*YV/T2JV/T8V Series (lead wire L-shaped)
- T1H Series
(lead wire straight)

- T1V Series (lead wire L-shaped)

- T2YD (switch for AC magnetic field)

T2YDU (switch for AC magnetic field with M12 cable connector)


Dimensions, switch internal circuit diagram

## Dimensions

T*YLH Series
(lead wire straight)


- T*YLV Series
(lead wire L-shaped)



## Switch internal circuit diagram

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