

Clean room specifications
Dust generation preventing structure for use in clean room
SMD2

## Switch specifications

Note 1: Max load current above: 20 mA at $25^{\circ} \mathrm{C}$. The current will be lower than 20 mA if ambient temperature around switch is higher than $25^{\circ} \mathrm{C}$. ( 5 to 10 mA at $60^{\circ} \mathrm{C}$ )

- With preventive maintenance output

| Descriptions |  | Proximity 3-wire | Proximity 4-wire | Proximity 3-wire | Proximity 4-wire |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | K2YFH/V | K3YFH/V | K2YMH/V | K3YMH/V |
| Applications |  | Programmable controller | Programmable controller, relay | Programmable controller | Programmable controller, relay |
| Output method |  | NPN output |  |  |  |
|  | Instalation position adisismeris sction | Red/green LED (ON lighting) |  |  |  |
|  | Preventive mánitenance output | - |  | Yellow LED (ON lighting) |  |
| $\begin{aligned} & \square \\ & \frac{\pi}{7} \\ & 0 \end{aligned}$ | Power voltage | - | 10 to 28 VDC | - | 10 to 28 VDC |
|  | Load voltage | 10 to 30 VDC | 30 VDC or less | 10 to 30 VDC | 30 VDC or less |
|  | Load current | 5 to 20mA | 50 mA or less | 5 to 20mA | 50 mA or less |
|  | Leakage current | 1 mA or less | $10 \mu \mathrm{~A}$ or less | 1.2 mA or less | $10 \mu \mathrm{~A}$ or less |
|  | Load voltage | 30 VDC or less |  |  |  |
|  | Load current | 20 mA or less | 50 mA or less | 5 to 20 mA or less | 50 mA or less |
|  | Leakage current | $10 \mu \mathrm{~A}$ or less |  |  |  |


| Descriptions | Proximity 2-wire |  | Proximity 3-wire |  |  | Reed 2-wire |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | K2H/K2V | K2YH/K2YV | K3H/K3V | K3PH/K3PV <br> (Custom order) | K3YH/K3YV | KOH | K0V | K5 | /K5V |
| Applications | Programmable controller |  | Programmable controller, relay |  |  | Programmable controller, relay |  | Programmable controller, relay <br> IC circuit (without indicator I light), serial connection |  |
| Output method | - |  | NPN output | PNP output | NPN output |  |  |  |  |
| Power voltage | - |  | 10 to 28 VDC |  |  |  |  |  |  |
| Load voltage | 10 to 30 VDC |  | 30 VDC or less |  |  | $12 \mathrm{VDC} / 24 \mathrm{VDC}$ | 110 VAC | 5/12/24 VDC | 110 VAC |
| Load current | 5 to 20mA (Note 1) |  | 50 mA or less |  |  | 5 to 50mA | 7 to 20mA | 50 mA or less | 20 mA or less |
| Light | LED (ON lighting) | Redigreen LED (ON I Ifting) | LED (ON lighting) | Yellow LED (ON I Ighting)\| | Reldrieen LED (ON Ighting) | LED (ON lighting) |  | - |  |
| Leakage current | 1 mA or less |  | $10 \mu \mathrm{~A}$ or less |  |  | OmA |  |  |  |

## Weight

It is the same as the double acting/single rod type SMD2 series. Refer to page 1007.

## Dimensions

It is the same as the double acting/single rod type SMD2 series. Refer to pages 1010 to 1012.

## SMD2-F ${ }_{\text {Series }}$

SCP*2

How to order
Without switch


Note on model no. selection
Note 1: For mounting style "DB" or "DC", if "X" indicated on
"Switch selection table", $\mathrm{K}^{*} \mathrm{H}$ type (axial lead wire)
cannot be installed. Please use $K^{*} V$ type (radial
lead wire).
Switch selection table

| Bore <br> size | DB (head end mounting type) |  | DC (high rigid mounting type) |  |
| :---: | :---: | :---: | :---: | :---: |
|  | 5 mm stroke | 10 mm stroke | 5 mm stroke | 10 mm stroke |
| $\phi 10$ | X | X | X | X |
| $\phi 16$ |  | X |  |  |
| $\phi 20$ | X |  | X |  |
| $\phi 25$ |  |  | X |  |
| $\phi 32$ |  |  |  |  |

Note 2: Refer to page 1026 for min. stroke length with switch.

Switch quantity

| Symbol |  |
| :---: | :--- |
| A Mounting style |  |
| DA | Rod end mounting type |
| DB | Head end mounting type |
| DC | High rigid mounting type |

B Bore size (mm)

| $\mathbf{6}$ | $\phi 6$ |
| :---: | :--- |
| $\mathbf{1 0}$ | $\phi 10$ |
| $\mathbf{1 6}$ | $\phi 16$ |
| $\mathbf{2 0}$ | $\phi 20$ |
| $\mathbf{2 5}$ | $\phi 25$ |
| $\mathbf{3 2}$ | $\phi 32$ |


| C Port thread type |  |  |
| :---: | :---: | :---: |
| Blank | Rc thread |  |
| NN | NPT thread (only $\phi$ 32) (custom order) |  |
| GN | G thread (only $\phi$ 32) (custom order) |  |
| ( ${ }^{\text {( Stroke length (mm) }}$ |  |  |
| Bore size | Stroke length Note 2 | Custom stroke length |
| $\phi 6$ to $\phi 16$ | 1 to 60 | 1 mm increment |
| $\phi 20$ to $\phi 32$ | 1 to 100 |  |


| E Switch model no. |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Axial lead wire | Radial lead wire | \# | Indicator | Lead wire |
| KOH* | K0V* | $\begin{aligned} & \text { ס্ঠ } \\ & \underset{\sim}{0} \end{aligned}$ | 1 color indicator type | 2-wire |
| K5H* | K5V* |  | Without indicator light |  |
| K2H* | K2V* | 즌즌은 | 1 color indicator type | 2-wire |
| K3H* | K3V* |  |  | 3-wire |
| K3PH* | K3PV* |  | 1 colorindiciact tpe (custom oderer) | 3-wire |
| K2YH* | K2YV* |  | 2 color indicator type | 2-wire |
| K3YH* | K3YV* |  |  | 3-wire |
| K2YFH* | K2YFV* |  | 2 color indicator type (W/o indicator light for preventive maintenance output) | 3-wire |
| K3YFH* | K3YFV* |  |  | 4-wire |
| K2YMH* | K2YMV* |  | 2 color indicator type (W indicator light for preventive maintenance output ( 1 color) | 3-wire |
| K3YMH* | K3YMV* |  |  | 4-wire |

*Lead wire length

| Blank | 1 m (standard) |
| :---: | :--- |
| $\mathbf{3}$ | 3 m (option) |
| $\mathbf{5}$ | 5 m (option) |
| F Switch quantity |  |
| $\mathbf{R}$ | 1 on rod end |
| $\mathbf{H}$ | 1 on head end |
| D | Two |

<Example of model number>
SMD2-LF-DA-6-15-KOH-R
Model: Compact cylinder fine speed type
(A) Mounting style : Rod end mounting type

B Bore size : $\phi 6 \mathrm{~mm}$
C Port thread type : Rc thread
(D) Stroke length : 15mm

E Switch model no. : Reed switch KOH , lead wire length 1 m
(F) Switch quantity : 1 on rod end

How to order switch


Switch model no.
(Item (E) above)

