## Control Switches Burzers Sockets



## Control Switches



- Selector Switches

- 

Emergency Switches


## Buzzers / Sockets

Pilot Lamps


- Piezo Buzzers
- Magnetic Buzzers


Sockets

$\square$ Control Switches


Buzzers

|  | Non-Flush | Page |
| :---: | :---: | :---: |
| Magnetic Buzzers | $\varnothing 22 / 25$ | 24 |
| Piezo Buzzers | $\varnothing 22 / 25$ | 24 |
|  | $\varnothing 30$ |  |

## Sockets

PG-08 PG-11 PS-08 PS-11 PS-M8 25

## Digital Switches

AD105-I,B
AD604-I,B
AD605-I,B

## Control Switches



Emergency Switches

Control Switches Series

| Items | Push Button Switches |  |  | Push Button Switches(Illuminated) |  | Doaibl Prish Bution Svichat | Start Push Buton Swiches |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Non-Flush | Non-Flush | Fush | Non-Flush | Flush | Non-Flush | Non-Flush |
| Mounting Hole Dimension | Ø22 / 25 | Ø30 | Ø30 | Ø22 / 25 | Ø30 | Ø22 / 25 | Ø22 / 25 |
| Model | S2PR-P1 | S3PR-P1 | S3PF-P1 | S2PR-P3 | S3PF-P3 | S2TR - P3 | S2BR - P1 |
| Appearance |  |  |  |  |  |  |  |
| Page | 06 | 07 | 07 | 08 | 08 | 12 | 13 |




| Page | 14 | 5 | - | 16 |
| :---: | :---: | :---: | :---: | :---: |
|  | Dome Type / Horn Type / Flat Type Plot Lamps |  |  |  |
| tems | Dome Type | Horn Type | Flat Type | Flat Type, Flush |
| Mounting Hole Dimension | Ø22 / 25 | Ø22 / 25 | Ø22 / 25 | Ø30 |
| Model | L2RR - L1 | L2RR - L2 | L2RR - L3 | L3RF - L3 |
| Appearance |  |  |  |  |
| Page | 17 | 18 | 18 | 19 |

## Specifications

| Mechanical Characteristics | Actuating Travel |  | $5.5 \mathrm{~mm}(0 \sim-0.5)$ |
| :---: | :---: | :---: | :---: |
|  | Actuating Force |  | $4.9 \mathrm{~N}(0.5 \mathrm{Kgf})$ (at 1 contact) |
|  | Shock | Shock Resistance | $500 \mathrm{~m} / \mathrm{s}^{2}(50 \mathrm{G})$ in each of $x, y, z$ directions for 3 times |
|  |  | Mechanical Malfunction | $100 \mathrm{~m} / \mathrm{s}^{2}(10 \mathrm{G})$ in each of $x, y, z$ directions for 3 times |
|  | Vibration | Vibration Resistance | 1.5 mm amplitude at frequency of $10 \sim 55 \mathrm{~Hz}$ (for 1 minute) in each of $x, y, z$ directions for 2 hours |
|  |  | Mechanical Malfunction | 1.5 mm amplitude at frequency of $10 \sim 55 \mathrm{~Hz}$ (for 1 minute) in each of $\mathrm{x}, \mathrm{y}, \mathrm{z}$ directions for 10 minutes |
|  | Mechanical Life Time |  | Min. 1 million (20 times/min) |
| Electrical Characteristics | Rated Voltage/Current |  | 110VAC/10A, 250VAC/6A |
|  | Dielectric Strength |  | 2000VAC $50 / 60 \mathrm{~Hz}$ for 1 minute |
|  | Insulation Resistance |  | Min. $100 \mathrm{M} \Omega$ (at 500VDC) |
|  | Contact Resistance |  | Max. $20 \mathrm{~m} \Omega$ (Initial value) |
|  | Electric Life Cycle |  | Min. 100 thousand (20 times/min) |
| LED block | Rated Voltage |  | DC type : $12-24 \mathrm{VAC} / D C$, AC type : 110-220VAC |
|  | Power Consumption |  | Max. 20 mA |
| Environmental Characteristics | Ambient Temperature |  | $-15 \sim 55{ }^{\circ} \mathrm{C}$ (at non-freezing status) |
|  | Ambient Humidity |  | $35 \sim 85 \% \mathrm{RH}$ |
|  | Storage Temperature |  | $-25 \sim 65{ }^{\circ} \mathrm{C}$ (at non-freezing status) |
|  | Protection Degree |  | IP52 (IP 50 for double push button switch) |
| Approval |  | ] ( $\epsilon$ | us (Emergency switches is ${ }_{c} \mathrm{~N}_{\text {us }}$ process of certification) |


| $\mathbf{S}$ | $\mathbf{2}$ | $\mathbf{P R}$ | $\mathbf{-}$ | $\mathbf{P 1}$ | $\mathbf{R}$ | $\mathbf{A}$ | $\mathbf{D}$ |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| (1) | (2) | (3) |  | (4) | (5) | (6) | (7) |



Ø22/25 Push Button Switches(Non-Flush)


| Model | Contacts |  |
| :---: | :---: | :---: |
|  | A Contact | B Contact |
| S2PR - P1■A | 1EA |  |
| " - " $\square 2 \mathrm{~A}$ | 2EA |  |
| - $\quad \square 3 \mathrm{~A}$ | 3EA |  |
| - " $\square \mathrm{B}$ |  | 1EA |
|  |  | 2EA |
| - " $\square 3 \mathrm{~B}$ |  | 3EA |
| -" $\square \mathrm{AB}$ | 1EA | 1EA |
| " - " $\square 2 \mathrm{AB}$ | 2EA | 1EA |
| " - " $\square$ A2B | 1EA | 2EA |

※ Represents colors $\square:$ R, B, G, Y, K

- Easy assembly and removal by one touch

O Mounting hole layout : $\varnothing 22.5 / 25.5 \mathrm{~mm}$

- Waterproof cap available (SA-WP)

- $\varnothing 30$ Push Button Switches (Non-Flush)



## Push Button Switches (Illuminated)

Ø22/25 Push Button Switches (Illuminated / Non-Flush)


- $\varnothing 30$ Push Button Switches (Illuminated / Flush)


| Model | Contacts |  | LED |  |
| :---: | :---: | :---: | :---: | :---: |
|  | A Contact | B Contact | DC Type | AC Type |
| S2PR - P3 $\square$ AD | 1EA |  | 1EA |  |
| " - " $\square 2 A D$ | 2EA |  | 1EA |  |
| " - " $\square \mathrm{BD}$ |  | 1EA | 1EA |  |
| " - " $\square 2 \mathrm{CD}$ |  | 2EA | 1EA |  |
| " - " $\square \mathrm{ABD}$ | 1EA | 1EA | 1EA |  |
| " - " $\square$ AL | 1EA |  |  | 1EA |
| " - " $\square 2 A L$ | 2EA |  |  | 1EA |
| " - " $\square \mathrm{BL}$ |  | 1EA |  | 1EA |
| " - " $\square 2 \mathrm{CL}$ |  | 2EA |  | 1EA |
| " - " $\square \mathrm{ABL}$ | 1EA | 1EA |  | 1EA |

※ Represents colors $\square:$ R, B, G, Y, W

- Simple and elegant design
- Mounting hole layout : $\varnothing 22.5$ / 25.5 mm
- Mounting hole layout (SA - WL)


| Model |  | Contacts |  | LED |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | A Contact | B Contact | DC Type | AC Type |
| S3PF | - P3 $\square$ AD | 1EA |  | 1EA |  |
|  | - " $\square 2 A D$ | 2EA |  | 1EA |  |
|  | - " $\square \mathrm{BD}$ |  | 1EA | 1EA |  |
|  | - " $\square 2 \mathrm{2BD}$ |  | 2EA | 1EA |  |
| " | - " $\square \mathrm{ABD}$ | 1EA | 1EA | 1EA |  |
|  | - " $\square \mathrm{AL}$ | 1EA |  |  | 1EA |
| " | - " $\square 2 A L$ | 2EA |  |  | 1EA |
|  | - " $\square \mathrm{BL}$ |  | 1EA |  | 1EA |
| " | - " $\square 2 \mathrm{LBL}$ |  | 2EA |  | 1EA |
| " | - " $\square \mathrm{ABL}$ | 1EA | 1EA |  | 1EA |

※ Represents colors $\square:$ R, B, G, Y, W

Mounting hole layout : $\varnothing 30.5 \mathrm{~mm}$


| $\mathbf{S}$ | $\mathbf{2}$ | $\mathbf{S R}$ | $\mathbf{-}$ | $\mathbf{S 7}$ | $\mathbf{W}$ | $\mathbf{A}$ |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| (1) | (2) | (3) |  | (4) | (5) | (6) |



## << Operation Description >>



## Ø22/25 Short Lever Selector Switches (Non-Flush)



Ø22/25 Long Lever Selector Switches (Non-Flush)


Ø30 Short Lever Selector Switches (Flush)


Ø30 Long Lever Selector Switches (Flush)


| $\mathbf{S}$ | $\mathbf{2}$ | $\mathbf{T R}$ | $\mathbf{-}$ | $\mathbf{P 3}$ | $\mathbf{W}$ | $\mathbf{A B}$ | $\mathbf{D}$ |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| $(1)$ | (2) | (3) |  | (4) | (5) | (6) | (7) |



## Ø22/25 Double Push Button Switches (Non-Flush)



| Model | Contacts |  | LED |  |
| :--- | :---: | :---: | :---: | :---: |
|  | A Contact | B Contact | DC Type | AC Type |
| S2TR - P3WABD | 1EA | 1EA | 1EA |  |
| S2TR - P3WABL | 1EA | 1EA |  | 1EA |

- Soft streamlined design
- Mounting hole layout : Ø22.5 / 25.5mm


| $\mathbf{S}$ | $\mathbf{2}$ | $\mathbf{B R}$ | - | $\mathbf{P 1}$ | $\mathbf{G}$ | $\mathbf{A}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: |
| (1) | (2) | (3) |  | (4) | (5) | (6) |



Ø22/25 Start Push Button Switches (Non-Flush)


| Model | Contacts |  |
| :---: | :---: | :---: |
|  | A Contact | B Contact |
| S2BR - P1 $\square$ A | 1EA |  |
| " - " $\square 2 \mathrm{~A}$ | 2EA |  |
| " - " $\square 3 \mathrm{~A}$ | 3EA |  |
| " - " $\square \mathrm{B}$ |  | 1EA |
| " - " $\square 2 \mathrm{~B}$ |  | 2EA |
| " - " $\square 3 \mathrm{~B}$ |  | 3EA |
| " - " $\square \mathrm{AB}$ | 1EA | 1EA |
| " - " $\square 2 A B$ | 2EA | 1EA |
| " - " $\square$ A2B | 1EA | 2EA |

※ Represents colors $\square:$ R, G

- Mushroom-head shaped design
- Mounting hole layout : $\varnothing 22.5 / 25.5 \mathrm{~mm}$


| $\mathbf{S}$ | $\mathbf{2}$ | $\mathbf{E R}$ | $\mathbf{-}$ | $\mathbf{E 1}$ | $\mathbf{R}$ | $\mathbf{B}$ | $\mathbf{D}$ |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| (1) | (2) | (3) |  | (4) | (5) | (6) | (7) |



## Ø22/25 Head D30L Emergency Switches (Non-Flush)



| Model |  |  | Contacts |  |
| :---: | :---: | :---: | :---: | :---: |
|  |  |  | A Contact | B Contact |
| S2ER - E1RA |  |  | 1EA |  |
|  | - |  | 2EA |  |
|  | - |  | 3EA |  |
|  | - | B |  | 1EA |
|  | - |  |  | 2EA |
|  | - | 3B |  | 3EA |
|  | - |  | 1EA | 1EA |
|  | - | 2 AB | 2EA | 1EA |
|  | - | A2B | 1EA | 2EA |

- Space-saving design
- Mounting hole layout : Ø22.5 / 25.5 mm
- PUSH LOCK \& TURN RESET



## - Ø22/25 Head D30S Emergency Switches (Non-Flush)



## Ø22/25 Head D40 Emergency Switches (Non-Flush)



| Model |  |  | Contacts |  |
| :---: | :---: | :---: | :---: | :---: |
|  |  |  | A Contact | B Contact |
| S2ER - E2RA |  |  | 1EA |  |
| " | - |  | 2EA |  |
| " | - |  | 3EA |  |
| " | - | B |  | 1EA |
| " | - |  |  | 2EA |
| " | - |  |  | 3EA |
| " | - | AB | 1EA | 1EA |
|  | - | $2 A B$ | 2EA | 1EA |
|  | - | A2B | 1EA | 2EA |

- Space-saving design
- Mounting hole layout : $\varnothing 22.5 / 25.5 \mathrm{~mm}$
- PUSH LOCK \& TURN RESET

Dimension (Unit:mm)


| Model |  |  | Contacts |  |
| :---: | :---: | :---: | :---: | :---: |
|  |  |  | A Contact | B Contact |
| S2ER - E3RA |  |  | 1EA |  |
|  | - | 2A | 2EA |  |
| " |  | 3A | 3EA |  |
| " | - | B |  | 1EA |
| " |  | 2B |  | 2EA |
| " | - | 3B |  | 3EA |
| " | - | $A B$ | 1EA | 1EA |
|  | - | 2 AB | 2EA | 1EA |
| " | - | A2B | 1EA | 2EA |

- Simple and elegant design
- Mounting hole layout : $\varnothing 22.5$ / 25.5 mm
- PUSH LOCK \& TURN RESET



## Emergency Switches

Ø22/25 Head D40 Emergency Switches (Illuminated Non-Flush)


- $\boldsymbol{\varnothing} 22 / 25$ Head D60 Emergency Switches (Non-Flush)


| Model |  |  | Contacts |  | LED |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | A Contact | B Contact | DC Type | AC Type |
| S2ER - E4RAD |  |  | 1EA |  | 1EA |  |
| " | - | 2AD | 2EA |  | 1EA |  |
| " | - | BD |  | 1EA | 1EA |  |
|  | - | 2BD |  | 2EA | 1EA |  |
| " | - | ABD | 1EA | 1EA | 1EA |  |
| " | - | AL | 1EA |  |  | 1EA |
| " | - | 2AL | 2EA |  |  | 1EA |
|  | - | BL |  | 1EA |  | 1EA |
|  | - | 2BL |  | 2EA |  | 1EA |
|  | - | ABL | 1EA | 1EA |  | 1EA |

- Improved visibility with high luminance LED
- Mounting hole layout : $\varnothing 22.5$ / 25.5 mm
- PUSH LOCK \& TURN RESET


| Model |  |  | Contacts |  |
| :---: | :---: | :---: | :---: | :---: |
|  |  |  | A Contact | B Contact |
| S2ER - E5RA |  |  | 1EA |  |
|  | - | 2A | 2EA |  |
| " | - |  | 3EA |  |
| " | - | B |  | 1EA |
| " | - |  |  | 2EA |
| " | - |  |  | 3EA |
| " | - |  | 1EA | 1EA |
|  | - | 2 AB | 2EA | 1EA |
|  | - | A2B | 1EA | 2EA |

- Increasing user convenience with large size head (Ø60)
- Mounting hole layout : $\varnothing 22.5$ / 25.5 mm
- PUSH LOCK \& TURN RESET



Push
Button
Switches

Push
Button
Switches
(Illuminated)

Selector
Switches

Double
Push
Button
Switches

Start
Push
Button
Switches

Emergency
Switches

Emergency
Switches
(Illuminated)

Pilot
Lamps

Accessories

Magnetic
Buzzers

Piezo
Buzzers

Sockets
Accessories
-
-



| Model | LED |  |
| :---: | :---: | :---: |
|  | DC Type | AC Type |
| $"-$ 1EA |  |  |
| " L |  | 1EA |

※ Represents colors $\square$ : R, B, G, Y, W

- Improved visibility with high luminance LED
- Mounting hole layout : $\varnothing 22.5 / 25.5 \mathrm{~mm}$
- $\varnothing 22 / 25$ HORN TYPE Pilot Lamps

- Improved visibility with high luminance LED
- Mounting hole layout : $\varnothing 22.5$ / 25.5 mm


Ø22/25 FLAT TYPE Pilot Lamps (Non-Flush)


- Simple and elegant design
- Mounting hole layout : Ø22.5 / 25.5mm



## - $\mathbf{~} 30$ FLAT TYPE Pilot Lamps(Flush)


※ Represents colors $\square:$ R, B, G, Y, W
Selector
Switches

Double
Push
Button
Switches

Start
Push
Button
Switches

Emergency
Switches

Emergency
Switches
(llluminated)

Pilot
Lamps
< Memo >

## Switch Contact Blocks

| SA | - |
| :---: | :---: |
| (1) |  |


| Classification | Ordering information |  | Description |
| :---: | :---: | :---: | :---: |
|  | (1) | (2) |  |
| Model | SA |  | Switches Accessories |
| Contact /LED Block |  | CA | A Contact (Normal open) |
|  |  | CB | B Contact (Normal close) |
|  |  | LD | LED Block (12-24VDC/AC) |
|  |  | LA | LED Block (110-220VAC 50/60HZ) |



- Switch Boxes

※ The number of holes and box length can be customized



## Emergency Switch Nameplates

| SA | - | NS |
| :---: | :---: | :---: |
| $(1)$ |  | (2) |



Emergency Switch Protective Shrouds


- Dimensions for small type

- Dimensions for large type


| D Part Dimension |  |
| :--- | ---: |
| SA-EG2 | $\varnothing 22.5$ |
| SA-EG3 | $\varnothing 25.5$ |

## Water Proof Cap

| SA | - V | WP |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| (1) (2) |  |  |  |  |  |  |
| Classification |  |  | Ordering Information |  |  | Description |
|  |  |  |  | (1) <br> SA | - |  | (2) |
| Model |  |  |  |  | $\begin{aligned} & \text { WP } \\ & \text { WL } \end{aligned}$ | Switch accessories |
| Appearance |  |  |  |  |  | For push button |
|  |  |  |  |  |  | For illuminated push button |


※ For Non-flush $\varnothing 22 / 25$ Non-flush switches

## Locking Handle for Switches



| Classification | Ordering Information |  |  | Description |
| :---: | :---: | :---: | :---: | :---: |
|  | (1) | - | (2) |  |
| Model | SA |  | LH | Switch accessories |
| Appearance |  |  |  | Locking ring wrench (Locking handle) |

(Unit : mm)


## Buzzers

| Classification | Magnetic Buzzers | Piezo Buzzers |  |
| :---: | :---: | :---: | :---: |
| Mounting Hole | Ø22 / 25 | Ø22 / 25 | $\varnothing 30$ |
| Model | B2NB - B1D | B2PB - B1D, B2D, B3D | B3PB - B1D, B2D, B3D |
| Appearance |  | launching <br> soon | launching) <br> soon |
| Page | 24 | 24 | 24 |

## Specifications

| Model |  | B2NB - B1D | B2PB - B1D, B2D, B3D | B3PB - B1D, B2D, B3D |
| :---: | :---: | :---: | :---: | :---: |
| Rated Voltage |  | 12-24VDC |  |  |
| Rated Current |  | Max. 60 mA | Max. 25 mA |  |
| Sound Level |  | Approx.75dB(1m) Approx.85dB(0.1m) | Approx.85dB(0.1m) |  |
| Sound Type |  | Continuous / Intermittent (Selectable) | Continuous / Intermittent (Selectable), Continuous, Intermittent |  |
| Insulation Resistance |  | Min. 50M 2 (at 500VDC) | Min. $100 \mathrm{M} \Omega$ (at 500VDC) |  |
| Dielectric Strength |  | 1,000VAC $50 / 60 \mathrm{~Hz}$ for 1 minute | $2,000 \mathrm{VAC} 50 / 60 \mathrm{~Hz}$ for 1 minute |  |
| Vibration Resistance |  | 1.5 mm amplitude at frequency of $10 \sim 55 \mathrm{~Hz}$ (for 1minute) in each of $x, y, z$ directions for 2 hours |  |  |
| Shock Resistance |  | $500 \mathrm{~m} / \mathrm{s}^{2}(50 \mathrm{G})$ in each of $x, y, z$ directions for 3 times | $300 \mathrm{~m} / \mathrm{s}^{2}(30 \mathrm{G})$ in each of $x, y, z$ directions for 3 times |  |
| Ambient Temperature |  | $-15 \sim 55^{\circ} \mathrm{C}$ (at non-freezing status) |  |  |
| Storage Temperature |  | -25 ~ $65^{\circ} \mathrm{C}$ (at non-freezing status) |  |  |
| Ambient Humidity |  | $35 \sim 85 \%$ RH |  |  |
| Protection Degree |  | IP30 |  |  |
| Material | Body | Nylon6 |  |  |
|  | Cover | PC |  |  |
| Unit Weight |  | Approx.18g | Approx. 20 g | Approx.25g |

## < Memo >

## Buzzers



## - $\boldsymbol{\sigma} 22 / 25$ Magnetic Buzzers(Non-Flush)


Model B2NB - B1D

- Mounting hole layout : Ø22.5 / 25.5mm
- Continuous and intermittent sound selectable
- High visibility with LED



## - $\mathbf{~ 2 2 / 2 5}$ Piezo Buzzers(Non-Flush)



| Model | Sound |
| :---: | :---: |
| B2PB - B1D | Continuous / <br> Intermittent(Selectable) |
| B2PB - B2D | Continuous |
| B2PB - B3D | Intermittent |

- Simple and polished design
- Mounting hole layout: $\varnothing 22.5 / 25.5 \mathrm{~mm}$

- $\varnothing 30$ Piezo Buzzers(Flush)


| Model | Sound |
| :---: | :---: |
| B3PB - B1D | Continuous / <br> Intermittent(Selectable) |
| B3PB - B2D | Continuous |
| B3PB - B3D | Intermittent |

- Simple and polished design
- Mounting hole layout : $\varnothing 30.5 \mathrm{~mm}$


Sockets


Specifications


| $\mathbf{P}$ | $\mathbf{G}$ | $\boldsymbol{-}$ |
| :--- | :--- | :---: |
| $(1)$ | (2) |  |


| Classification | Ordering Information |  |  |  | Description |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | (1) | (2) | - | (3) |  |
| Model | P |  |  |  | Sockets |
| Appearance |  | G |  |  | Standard type |
| Terminal |  |  |  | $\begin{aligned} & 08 \\ & 11 \end{aligned}$ | $\begin{aligned} & 8 \mathrm{Pin} \\ & 11 \mathrm{Pin} \end{aligned}$ |
| Appearance |  | S |  |  | Din Rail / Wall mounting type |
| Terminal |  |  |  | $\begin{aligned} & 08 \\ & 11 \\ & \text { M8 } \end{aligned}$ | $\begin{aligned} & 8 \text { Pin } \\ & 11 \text { Pin } \\ & \text { M8 Pin (Mini size-ATS series only) } \end{aligned}$ |

## - Standard Type Socket



## Model PG-08

- High heat resisting property and insulation resistance with PBT(UL94-V0 resin)-plated body
- Improved electrical capability and reliable connection with connection terminal made of copper alloy


## Dimension (Unit:mm)



Push

- One touch for easy mounting on RAIL
- When mounting panel, Fix it with M4*0.7 screw
- High heat resisting property and insulation resistance with PBT(UL94-V0 resin)-plated body.
- Improved electrical capability and reliable connection with connection terminal made of copper alloy



## Magnetic

Buzzers

## Piezo

Buzzers

## - Din Rail / Wall Mounting Type


Model PS-11

- One touch for easy mounting on RAIL
- When mounting panel, fix it with M4*0.7 screw
- High heat resisting property and insulation resistance with PBT(UL94-V0 resin)-plated body
- Improved electrical capability and reliable connection with connection terminal made of copper alloy

- Din Rail / Wall Mounting Type


Digital Switches Series

| Classification | Digital Switches (Small) | Digital Switches (Standard) |  |
| :---: | :---: | :---: | :---: |
|  |  | Relay Pattern | Standard Pattern |
| Model | AD105-I, B | AD604-I, B | AD605-I, B |
| Appearance |  |  |  |
| Page | 30 |  |  |

$\square$ Specifications

| Model | AD105-I, B | AD604-I, B | AD605-I, B |
| :---: | :---: | :---: | :---: |
| Operation Capacity | Max.500gf (4.9N) | Max.550gf (5.39N) |  |
| Load Capacity | $5-28 \mathrm{VDC}, 1 \mathrm{~mA} \sim 0.1 \mathrm{~A}$ | $5-28 \mathrm{VDC}, 50 \mathrm{VAC} 50 / 60 \mathrm{~Hz} 1 \mathrm{~mA} \sim 0.1 \mathrm{~A}$ |  |
| Continuous Carry Current | Max. 100 mA | Max. 1A |  |
| Contact Resistance | Max. $200 \mathrm{~m} \Omega$ |  |  |
| Between Non- <br> Insulation Connected Terminals | Min. $100 \mathrm{~m} \Omega$ (at 250 VDC for 1 mimute) |  |  |
| $\text { Resistance } \begin{aligned} & \text { Between Terminal and } \\ & \text { Non-Current Carrying Part } \end{aligned}$ | Min. $100 \mathrm{~m} \Omega$ (at 500 VDC for 1 mimute) |  |  |
| Between Non-DielectricConnected Terminals | 250VAC 50/60Hz for 1 minute | 600VAC $50 / 60 \mathrm{~Hz}$ for 1 minute |  |
| Strength $\begin{gathered}\text { Between Terminal and } \\ \text { Non-Current Carrying Part }\end{gathered}$ | $500 \mathrm{VAC} 50 / 60 \mathrm{~Hz}$ for 1 minute | 1000VAC $50 / 60 \mathrm{~Hz}$ for 1 minute |  |
| Vibration Resistance | 0.75 mm amplitude at frequency of 10~55Hz (for 1 minute) in each of $x, y, z$ directions for 1 hours |  |  |
| Shock Resistance | $500 \mathrm{~m} / \mathrm{s}(50 \mathrm{G})$ in each of $x, y, z$ directions for 3 times |  |  |
| Urability Electrical | More than 20,000 times |  |  |
| Mechanical | More than 30,000 times |  |  |
| Ambient Temperature | $-10 \sim 50^{\circ} \mathrm{C}$ (at non-freezing status) |  |  |
| Storage Temperature | $-20 \sim 80^{\circ} \mathrm{C}$ (at non-freezing status) |  |  |
| Ambient Humidity | $45 \sim 85 \%$ RH |  |  |
| Unit Weight | 1.3 g | 4.2 g | 3.8 g |

Push
Button
Switches

Push
Button
Switches
(Illuminated)

Selector
Switches

Double
Push
Button
Switches

Start
Push
Button
Switches

Emergency
Switches

Emergency
Switches
(Illuminated)

## Pilot

Lamps

Accessories

Magnetic
Buzzers

Piezo
Buzzers

## D Digital Switches


※ Additional display range can be ordered separately

## Digital Switches(Small)




| Classification | Ordering Information |  |  |  |  |  | Description |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | (1) | (2) | (3) | (4) | - | (5) |  |
| Model | AD |  | 0 |  |  |  | Autonics Digital Switch |
| Mounting Size |  | 6 |  |  |  |  | 22.5 mm height |
| Display Range |  |  |  |  |  |  | 0~9 |
| Pattern |  |  |  | 4 |  |  | Relay pattern |
|  |  |  |  | 5 |  |  | Standard pattern |
| Case Color |  |  |  |  |  | 1 | IVORY |
| Case Color |  |  |  |  |  | B | BLACK |

※ Additional display range can be ordered separately

| AD604 Series | AD605 Series |
| :---: | :---: |
| Relay Pattern | Standard Pattern |
|  |  |

## <Output Code Number>

| Model | AD604-I <br> AD604-B <br> AD605-I <br> AD605-B | COM("C") Contact Condition |  |  |  | $\begin{aligned} & \mathrm{C} \\ & \mathrm{O} \\ & \mathrm{M} \end{aligned}$ | Number of Switches(n) | $\begin{gathered} \text { Size A } \\ (n \times 8+8) \end{gathered}$ | $\begin{aligned} & \text { Size B } \\ & (\mathrm{n} \times 8+6) \end{aligned}$ | Size C |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | 1 | 2 | 4 | 8 | C | 1 | 16 | 14 | 14.5 |
| Preset <br> Position | 0 |  |  |  |  | - | 2 | 24 | 22 | 22.5 |
|  | 1 | - |  |  |  | - | 3 | 32 | 30 | 30.5 |
|  | 2 |  | - |  |  | - | 4 | 40 | 38 | 38.5 |
|  | 3 | - | - |  |  | - | 5 | 48 | 46 | 46.5 |
|  | 4 |  |  | - |  | $\bullet$ | 6 | 56 | 54 | 54.5 |
|  | 5 | - |  | - |  | - | 7 | 64 | 62 | 62.5 |
|  | 6 |  | - | - |  | - | 8 | 72 | 70 | 70.5 |
|  | 7 | - | - | - |  | - | 8 | 72 | 70 | 70.5 |
|  | 8 |  |  |  | - | - | 9 | 80 | 78 | 78.5 |
|  | 9 | - |  |  | - | - | 10 | 88 | 86 | 86.5 |

- Visibility is increased by using wide display part

| Model | AD604-I | AD605-I |
| :--- | :--- | :--- |
|  | AD604-B | AD605-B |
| ※ Color:I, B |  |  |
| One touch mounting type for easy installation |  |  |
| Visibility is increased by using wide display part |  |  |



Digital Switches Accessory

| AD105 | - | $\mathbf{L}$ |
| :---: | :---: | :---: |
| (1) | (2) | (3) |


| Classification | Ordering Information |  |  |  | Description |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | - | (2) | (3) |  |  |
| Model |  |  |  |  | AD105 Series |  |
| Cover |  |  | L |  | Left cover |  |
|  |  |  | R |  | Right cover |  |
| Color |  |  |  | I | IVORY |  |
|  |  |  |  | B | BLACK |  |



| AD605 | - | $\mathbf{L}$ | $\mathbf{I}$ |
| :---: | :---: | :---: | :---: |
| (1) | (2) | (3) |  |


| Classification | Ordering information |  |  |  | Description |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | (1) <br> AD605 | - | (2) | (3) |  |  |
| Model |  |  |  |  | AD605 Series |  |
| Cover |  |  | L |  | Left cover |  |
|  |  |  | R |  | Right cover |  |
| Color |  |  |  | 1 | IVORY |  |
|  |  |  |  | B | BLACK |  |



## Dreaming ORANGE Worlal through Autonics ORANGE Solution



Global partner for Industrial Automation

## Autonics corporation

## Distributor

■ Major products

- Photoelectric sensors • Fiber optic sensors • Door/Door side sensors • Area sensors • Proximity sensors - Pressure sensors • Rotary encoders - Temperature controllers - Temperature/Humidity transducers • SSR/Power controllers • Counters - Timers • Panel meters • Tachometer/Pulse(Rate) meters - Display units • Sensor controllers • Switching power supplies • $2 / 5$-phase stepping motors/drivers • Motion controllers - Graphic/Logic panels - Field network devices • Control switches/Lamps/Buzzers/Sockets • Laser marking systems(Fiber, $\mathrm{CO}_{2}$, Nd:YAG) • Laser welding/soldering systems
■ Any proposal for a product improvement and development : Product@autonics.com


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