

## Main data

- Housing made of glass-reinforced polymer, self-extinguishing
- Self-cleaning contacts made of solid silver
- Possibility of application with the cable side close to the wall
- Azionamento frontale
- Protection degree from IP00 to IP20
- Transparent cover

Markings and quality marks:


| Approval IMQ: | CA50.00541 |
| :--- | :--- |
|  | EN 81-1:2005 |
|  | EN 81-2:2005 |
|  | 230 VAC-2 A |
|  | E131787 |

## Technical data

## Description

Safety switches with double interruption and positive opening. Suitable for the control of automatic lift doors.

## Housing

Made of glass-reinforced polymer, self-extinguishing, shock-proof thermoplastic resin
Protection degree:
IP00 (DS A•5VA)
IP20 (DS A•1VA)

## General data

Ambient temperature: from $-30^{\circ} \mathrm{C}$ to $+80^{\circ} \mathrm{C}$
Max operating frequency:
Mechanical endurance:
Max actuating speed:
Min. actuating speed:
Max actuating force
Driving torque for installation:
(humidity $\leq 95 \%$, without condensation) 3600 operations cycles ${ }^{1} /$ hour
10 millions of operations cycles ${ }^{1}$ (DSA•1VA)
5 millions of operations cycles ${ }^{1}$ (DSA•5VA)
$0,5 \mathrm{~m} / \mathrm{s}$
$1 \mathrm{~mm} / \mathrm{s}$
$1,5 \mathrm{~N}$
see page 75
(1) One operation cycle means two movements, one to close and one to open contacts, as foreseen by EN 60947-5-1 standard.

Cross section of the conductors (flexible copper wire)

$$
\begin{array}{ccl}
\min . & 1 \times 0,5 \mathrm{~mm}^{2} & (1 \times \text { AWG 20) } \\
\operatorname{max.} & 1 \times 2,5 \mathrm{~mm}^{2} & (1 \times \text { AWG } 14)
\end{array}
$$

## In conformity with standards:

IEC 60947-5-1, EN 60947-5-1, EN 60529, EN 60529, EN 81-1, EN 81-2

## In conformity with requirements requested by:

Low Voltage Directive 2006/95/EC, Machinery Directive 2006/42/EC and
Electromagnetic Compatibility 2004/108/EC.
Positive contact opening in conformity with standards:
IEC 60947-5-1, EN 60947-5-1, VDE 0660-206.

| Electrical data |  | According |  |  | According | According |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Thermal current (lth): | 4 A | EN 60947-5-1 |  |  | EN 81 par. F1.2.4 | EN 81 par. F.1.2.2.1.1 |
| Rated insulation voltage (Ui): | 500 Vac | EN 81 | par. 14 | 1.2.2 |  |  |
| Rated impulse with stand voltage Protection against short circuits: | (Uimp): 6 KV | Utilization categories: |  |  |  |  |
|  | fuse 4 A | AC15 | 0, 60 |  | AC (50, 60 Hz ) | AC (50, 60 Hz ) |
|  | 500 V type gG | Ue (V) | 120 | 250 | 230 Vac | 230 Vac |
| Pollution degree: | 3 | le (A) | 3 | 3 | 2 A | 2 A |
|  |  | DC13 |  |  | DC: | DC: |
|  |  | $\mathrm{Ue}(\mathrm{V})$ | 125 | 250 | 200 Vdc | 125 Vdc |
|  |  | le (A) | 0,55 | 0,27 | 2 A | 0,5 A |

## Application examples DS A series

These devices have several cable outputs to allow installation also in restricted spaces, for example:


Door switches close to the wall installation
 Door switches side by side installation


## Data type approved by UL

Utilization categories Q300 (69VA, 125-250Vdc), 120-240Vac, 3 A pilot duty, 5 A thermal current

For all contact blocks use 60 or $75^{\circ} \mathrm{C}$ copper (Cu)
conductor and wire size No. 12-14 AWG.
Terminal tightening torque of $7,1 \mathrm{lb}$ in ( 0.8 Nm ).
In conformity with standard: UL 508

Please contact our technical service for the list of approved products.

| Dimensional drawings |  |  | 10 pes packs |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Door switches with positive opening - internal contacts |  | Door switches with positive opening - external contacts |  |
|  | Switch without actuator | Switch without actuator | Switch without actuator | Switch without actuator |
| Slow action contacts | DS AA1VA $\Theta 1$ NC | DS AE1VA $\Theta$ 1NC | DS AA5VA $\Theta 1$ 1NC | DS AE5VA $\Theta$ 1NC |
| Max actuating travel | 8 mm | 8 mm | 6 mm | 6 mm |



Actuators for door switches with external contacts (DS A•5VA)
10 pcs packs



## Main data

- Housing made of glass-reinforced polymer, self-extinguishing
- Self-cleaning contacts made of solid silver
- Three wiring possibilities
- Protection degree IP20
- Transparent cover


## Markings and quality marks:

C $\epsilon$
Approval IMQ: pending
Approval UL: pending

## Technical data

## Description

Safety switches with double interruption and positive opening. Suitable for the control of automatic lift doors.

## Housing

Made of glass-reinforced polymer, self-extinguishing, shock-proof thermoplastic resin Protection degree: IP20

## General data

Ambient temperature: from $-30^{\circ} \mathrm{C}$ to $+80^{\circ} \mathrm{C}$
Max operating frequency:
Mechanical endurance:
(humidity $\leq 95 \%$, without condensation)
operations cycles ${ }^{1} /$ hour
Max actuating speed:
Min. actuating speed:
Max actuating force
Driving torque for installation:
(1) One operation cycle means two movements, one to close and one to open contacts, as foreseen by EN 60947-5-1 standard.

## Cross section of the conductors (flexible copper wire)

$$
\begin{array}{cll}
\min . & 1 \times 0,5 \mathrm{~mm}^{2} & (1 \times \text { AWG } 20) \\
\max . & 1 \times 2,5 \mathrm{~mm}^{2} & (1 \times \text { AWG } 14)
\end{array}
$$

## In conformity with standards:

IEC 60947-5-1, EN 60947-5-1, EN 60529, EN 60529, EN 81-1, EN 81-2

## In conformity with requirements requested by:

Low Voltage Directive 2006/95/EC, Machinery Directive 2006/42/EC and
Electromagnetic Compatibility 2004/108/EC.
Positive contact opening in conformity with standards:
IEC 60947-5-1, EN 60947-5-1, VDE 0660-206.

| Electrical data |  | According |  |  | According | According | According UL508 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Thermal current (lth): | 6 A | EN 60947-5-1 |  |  | EN 81 par. F.1.2.4 | $\begin{aligned} & \text { EN 81 } \\ & \text { par. F.1.2.2.1.1 } \end{aligned}$ |  |
| Rated insulation voltage (Ui): | 500 Vac | EN 81 par. 14.1.2.2 |  |  |  |  |  |
| Rated impulse with stand voltage (Uimp): 6 KV |  | Utilization categories: |  |  |  |  | Ratings: |
| Protection against short circuits: | fuse 6 A | AC15 (50, 60 Hz ) |  |  | AC ( $50,60 \mathrm{~Hz}$ ) | AC ( $50,60 \mathrm{~Hz}$ ) | AC ( $50,60 \mathrm{~Hz}$ ) |
|  | 500 V type gG | Ue (V) | 120 | 250 | 230 Vac | 230 Vdc | C300 |
| Pollution degree: | 3 | le (A) |  |  | 2 A | 2 A |  |
|  |  | DC13 |  |  | DC: | DC: |  |
|  |  | Ue (V) |  | 250 | 200 Vdc | 125 Vdc | Q300 |
|  |  | le (A) | 0,8 | 0,45 | 2 A | 1 A |  |

Three wiring possibilities


Standard wiring


Fast bottom wiring


Fast lateral wiring

Transparent head and slotted holes


Transparent head on all sides in order to allow adjustment and centering of the actuator with the contacts.

The slotted holes on the actuator and on the contact housing allow to obtain a correct alignment between these two devices.

With a bipolar cable With two monopolar With two monopolar through the central hole on cables through two cables through two the housing bottom. holes on the housing holes on the housing Furthermore, using a three- bottom. During this sides. During this pole cable it is possible to operation there is no operation there is use the lateral hole with need to open the con- no need to open the a wire for earthing other tact cover. contact cover. metal parts.

## Rotating heads

By rotating the head and the contact reeds of $180^{\circ}$ it is possible to transform a door switch with frontal actuation into a door switch with actuation from back. The whole operation is possible by simply unscrewing three screws.


## Housing back fixing

The particular shape of the housing allows fixing from the back. In fact near the fixing holes it is possible to fit a tubular wrench in order to keep hold of the nut while fixing.


Dimensional drawings
10 pcs packs

| Actuators |  |  | 10 pcs packs |
| :---: | :---: | :---: | :---: |
| Article | Description | Article | Description |
| DS KA1A | Straight actuator | DS KB1A | Right-angled actuator |
|  |  |  |  |
| Article | Description | Article | Description |
| DS KA2A | Straight actuator | DS KB2A | Right-angled actuator |
|  |  |  |  |
| Article | Description | Article | Description |
| DS KA3A | Straight actuator | DS KB3A | Right-angled actuator |
|  |  |  |  |
| $\rightarrow$ 2D and 3D files available on www.pizzato.com |  |  | All measures in the drawings are in mm |
| (1) pizzato deithibe Lift Devices |  |  | page 47 |

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