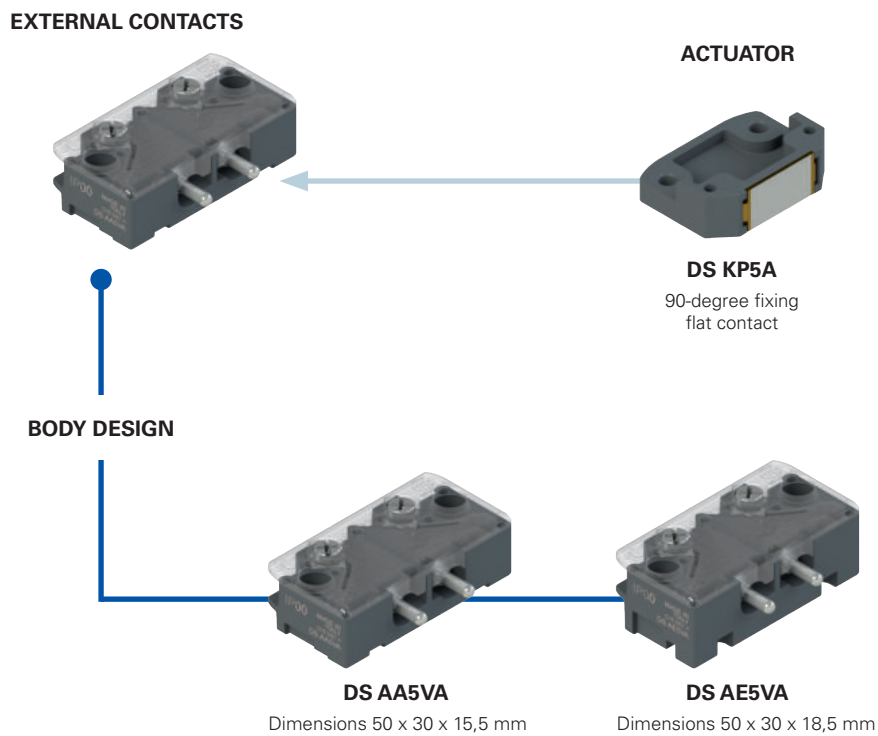
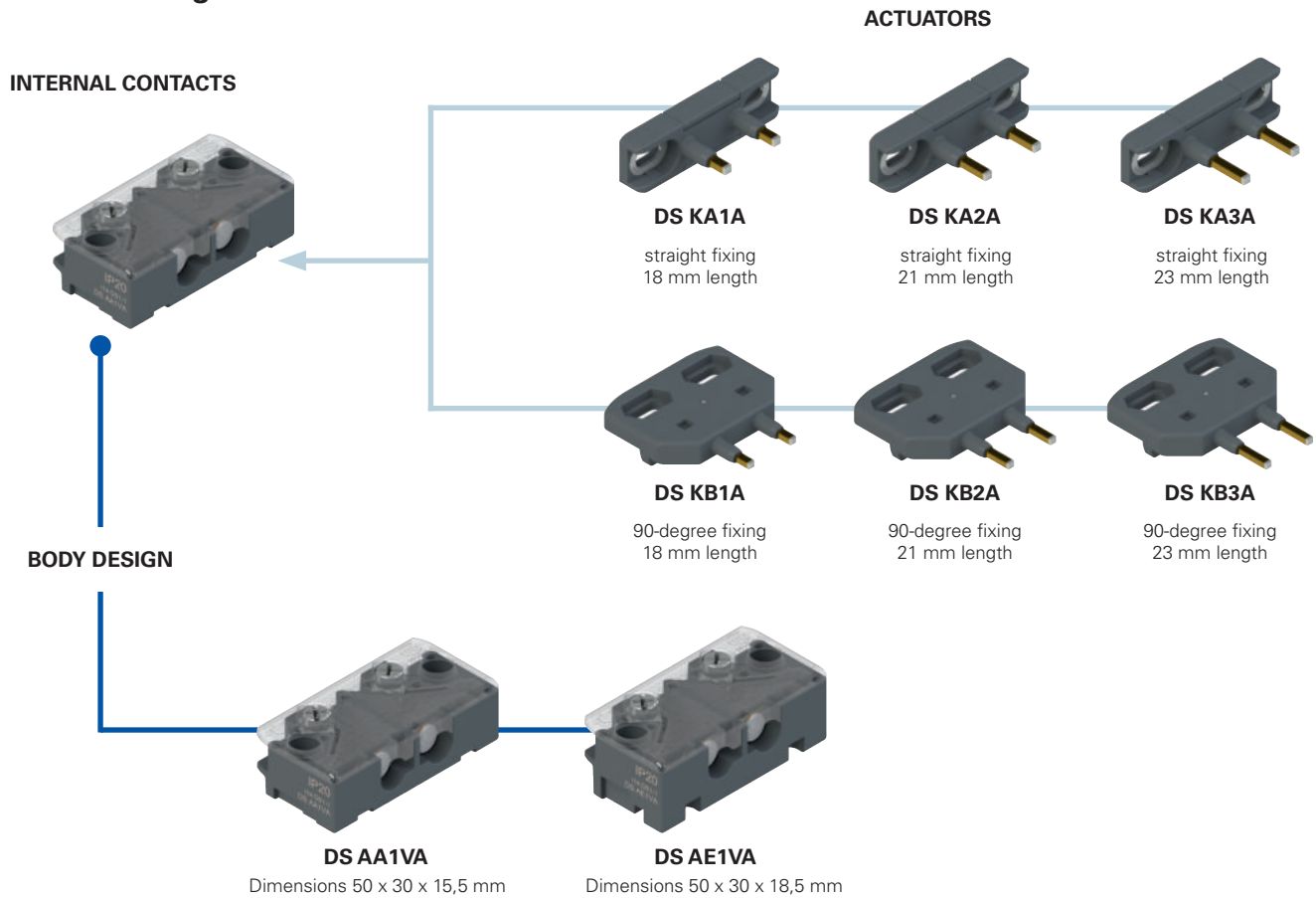




Selection diagram



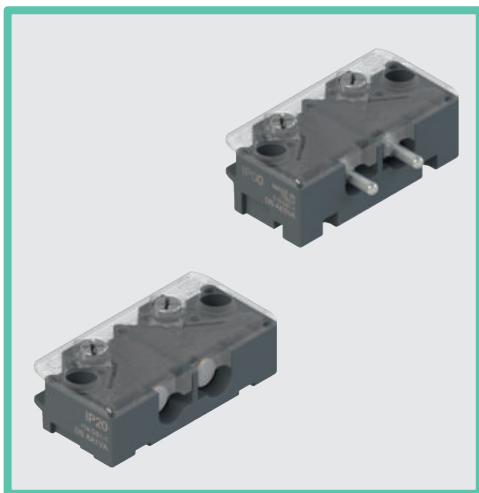
-  product options
-  sold separately as accessory

**Code structure for door contacts****Attention!** The feasibility of a code number does not mean the effective availability of a product. Please contact our sales office.**DS AA1VA**

Body design		Contact type	
A	Dimensions 50 x 30 x 15,5 mm mounting hole spacing 40 mm fixing with M4x10 screws	1	internal contacts
E	Dimensions 50 x 30 x 18,5 mm mounting hole spacing 40 mm fixing with M4x13 screws	5	external contacts

Code structure for actuator**Attention!** The feasibility of a code number does not mean the effective availability of a product. Please contact our sales office.**DS KA1A**

Body design		Contact type	
A	Mounting hole spacing 29 mm straight fixing	1	actuator for internal contacts, 18 mm length
B	Mounting hole spacing 20 mm 90-degree fixing	2	actuator for internal contacts, 21 mm length
P	Mounting hole spacing 30 mm 90-degree fixing, flat contact	3	actuator for internal contacts, 23 mm length
		5	actuator for external contacts, 12 x 20 mm



Main features

- Housing made of glass fibre reinforced technopolymer, self-extinguishing
- Self-cleaning contacts in solid silver
- Can be installed with cable side flush with wall
- Front actuation
- Protection degrees IP00 up to IP20
- Transparent cover or head

Quality marks:



UL approval:	E131787
CCC approval:	2013010305602310
EAC approval:	RU C-IT.A.135.B.00454

Technical data

Description

Double interruption positive opening safety switch. Suitable for controlling automatic lift doors.

Housing

Housing made of glass fiber reinforced technopolymer, self-extinguishing and shock-proof
 Protection degree acc. to EN 60529: IP00 (articles DS A•5VA)
 IP20 (articles DS A•1VA)

General data

Ambient temperature:	-30°C ... +80°C (humidity ≤ 95%, without condensation)
Max. operating frequency:	3600 operating cycles/hour
Mechanical endurance:	10 million operating cycles (DS A•1VA) 5 million operating cycles (DS A•5VA)
Mechanical interlock, not coded:	type 1 acc. to EN ISO 14119
Safety parameter B _{10D} :	20,000,000 (DS A•1VA) 10,000,000 (DS A•5VA)
Max. actuation speed:	0.5 m/s
Min. actuation speed:	1 mm/s
Actuating force:	1.2 ... 2.1 N (DS A•1VA) 1.2 ... 1.7 N (DS A•5VA)
Available with reduced actuating force on request:	0.8 ... 1.3 N (DS A•1VA) 0.8 ... 1.1 N (DS A•5VA)
Tightening torques for installation:	see page 144
Fixing screws:	M4 self-tapping Longer fixing screws available on request

Connections:

Cable cross section (flexible copper strands):	min. 1 x 0.5 mm ² (1 x AWG 20) max 1 x 2.5 mm ² (1 x AWG 14)
Cable stripping length:	7 mm

In compliance with standards:

IEC 60947-5-1, EN 60947-5-1, EN 60947-1, EN 60529, EN ISO 14119, EN 60529, EN IEC 63000, EN 81-20, EN 81-50, UL 508, CSA 22.2 No.14.

Approvals:

IEC 60947-5-1, UL 508, CSA 22.2 No.14, GB/T14048.5-2017.

Compliance with the requirements of:

Low Voltage Directive 2014/35/EU, EMC Directive 2014/30/EU,
 Lift Directive 2014/33/EU, RoHS Directive 2011/65/EU.

Positive contact opening in conformity with standards:

IEC 60947-5-1, EN 60947-5-1.

Electrical data

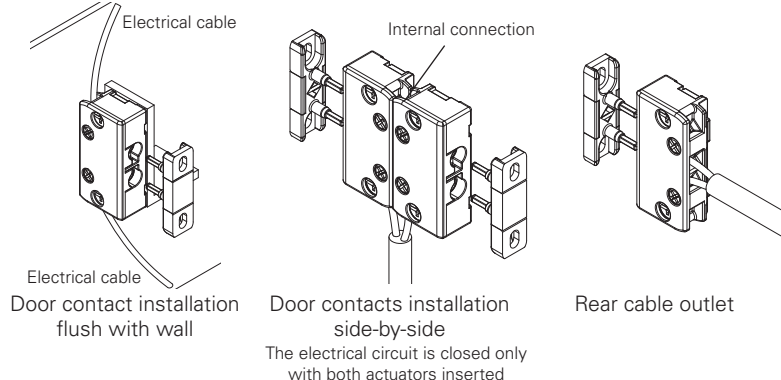
Thermal current (I _{th}):	4 A
Rated insulation voltage (U _i):	500 Vac
Impulse withstand voltage (U _{imp}):	6 kV
Protection against short circuits:	type gG fuse 4 A 500 V
Pollution degree:	3

Utilization categories:

Acc. to	Acc. to	Acc. to
EN 60947-5-1, EN 81-20 par. 5.11.2.2	EN 81-50 par. 5.2.2.4	EN 81-50 par. 5.2.2.2
AC15 (50, 60 Hz):	AC (50, 60 Hz):	AC (50, 60 Hz):
U _e (V) 120 250	230 Vac	230 Vac
I _e (A) 3 3	2 A	2 A
DC13:	DC:	DC:
U _e (V) 125 250	200 Vdc	125 Vdc
I _e (A) 0,55 0,27	2 A	0.5 A

Application examples

These devices have additional cable outlets, allowing installation even in tight spaces. For example:



Features approved by UL

Electrical Ratings: Q300 (69 VA, 125-250 V dc)
 120-240 V ac, 3 A pilot duty,
 5 A thermal current.

Use 60 or 75°C copper (Cu) conductors, rigid or flexible, wire size 12, 14 AWG. Tightening torque for terminal screws of 7.1 lb in (0.8 Nm).

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



Dimensional drawings

Packs of 10 pcs.

	Door contacts with internal contacts		Door contacts with external contacts	
	Switch without actuator	Switch without actuator	Switch without actuator	Switch without actuator
Slow action contacts	DS AA1VA \odot 1NC	DS AE1VA \odot 1NC	DS AA5VA \odot 1NC	DS AE5VA \odot 1NC
Maximum actuation travel	8 mm	8 mm	6 mm	6 mm
Travel diagram				

Legend

Closed contact |
 Open contact |
 \odot Positive opening travel |
 \oplus Minimum 2 mm opening travel between contacts, in accordance with UNI EN 81-20

Actuators for door contacts with internal contacts

Packs of 10 pcs.

Article	Description	Article	Description
DS KA1A	Straight actuator	DS KB1A	Angled actuator
DS KA2A	Straight actuator (*)	DS KB2A	Angled actuator (*)
DS KA3A	Straight actuator (*)	DS KB3A	Angled actuator (*)

(*) **ATTENTION:** When inserting the actuator, never exceed the maximum actuating travel.

Actuator for door contacts with external contacts

Packs of 10 pcs.

Article	Description
DS KP5A	Flat actuator

Centring device

Packs of 100 pcs.

Article	Description
VD CE1A20	Centring device

Centring device compatible with DS KA•• and DS KB•• actuators. Facilitates actuator centring with DS A•1VA switches during installation.

All values in the drawings are in mm

Accessories See page 135

→ The 2D and 3D files are available at www.pizzato.com