

The safety foot pedal FE-FS2-SU1ASDU1/U1-U use safety switches.

The right foot pedal have two positions (free position and pressed down position). It may e.g. be used for the selection of AKAS® Box bending function or opening of a press. The left foot pedal have 3 positions, with a pressure point, to control dangerous movements (for instance get down of a press brake ect...). It has 2 working contacts (1NC+1NO) to drive the movement and one safety switch (1 positive opening NC contact + 1NO) to stop the movement. Pressing the foot pedal, till the pressure point, allows the changeover of the 2 working contacts. Once the pressure point is got over, the 2 working contacts return to their first position and the positive opening safety contact is activated in order to initiate immediately the dangerous movement. Thus a redundant information for the safety circuit is available.

A restart of the machine is only possible after releasing the foot switch.

Left pedal:

Right pedal:

Switching diagram:

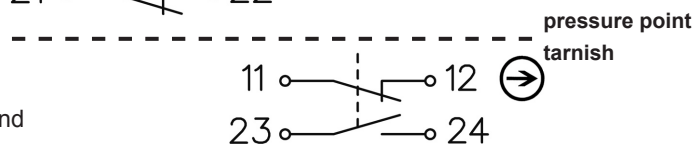
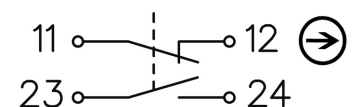
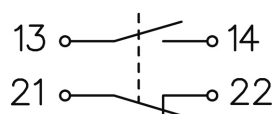
	free position	pressure point	pressed down
13-14			
21-22			
11-12			
23-24			

	free position	pressed down
23-24		
11-12		

Contact closed
Contact open

Switching elements:

Contact closed
Contact open



Safety side

The contacts for the left and right pedal must be clearly identified during the circuit diagram creation!

Execution	2 aluminum foot pedal heavy version free standing on slip elastic feet
Operating voltage	max. 500 VAC, 40-60Hz
Switching current	max. 10 A. For inductive and capacitive loads, a contact protection must be provided.
Operations	min. 10 Mio.
Contact Material	Silver
Connection type	Screwterminal
Electrical connection	0,5-1,5 mm ²
Cable entry	3x M20x1,5
Switching insert	Left pedal: 1 changeover contact with tarnish, after pressure point 1 changeover contact, positive opening Right pedal: 1 changeover contact, positive opening
Switching function	Left pedal: sequential circuit with pressure point
Pressure point	Left pedal: Min. 200 N operating force when used as intended
Switching system	Left pedal: Jump-/ creep mechanism Right pedal: Creep mechanism
Housing	Die cast aluminum, powder-coated RAL 7021 (dark gray)
Pedal	Die cast aluminum, powder-coated RAL 7021 (dark gray)
Accident cover	Die cast aluminum, powder-coated
Attachment	For mounting of the footpedal in the housing bottom (pedal area) are provided 2xØ4,5 and 2xØ6,5 holes (see drawing). Here threads can be cut. Alternatively, the rubber feet can be removed and these threads can be used as a mounting option.
Protection type	IP65 to IEC/EN 60529
Operating temperature	-30°C to +80°C
Regulations	IEC/EN 60947-5-1
Order code	FE-FS2-SU1ASDU1/U1-U-xx (xx = RD = cover firered RAL 3000)

Additional information:

Any modification of the foot pedal and its components will void the warranty and product liability.

In particular, lifting the die-cast aluminum pedal against the upper stop and driving out the retaining pin are prohibited.

This can cause the foot pedal to malfunction and thus lead to a loss of safety!