FIESSLER
ELEKTRONIK

Foot-pedals

Safety foot-pedals

Safety Solutions ▲ Sicherheitskomponenten und Sicherheitslösungen ▲ Safety Components
developed and manufactured
FIESSLER ELEKTRONIK
entwickelt und gefertigt
MADE IN GERMANY

HOMEPAGE

Foot-pedals
Safety foot-pedals

FIESSLER ELEKTRONIK

Innovation

Our vision:

We protect people from accidents and have convincing high quality innovative, user-friendly safety solutions for the customers and are always willing to provide the customer with help and advice.

Our passion:

Fiessler Elektronik has been producing optoelectronic components for the industry since 1956. The resulting development and production of the first fully electronic safety light curtain and safety light grid on the basis of the transmitter-receiver principle began in 1965.

Nearly 30 years later in 1996, Fiessler Elektronik was the first manufacturer worldwide to introduce the groundbreaking innovation of a specially coupled motion safety solution for blanking pressed (AKAS®).

In 2005, Fiessler Elektronik completed its solution for blanking pressed with its programmable FPSC safety control.

Permanent product care and new developments in dialogue with our customers is what guarantees perfect solutions and high quality products. Certifications, quality monitoring and prototype tests in accordance with worldwide standards are a matter of course for Fiessler Elektronik.

Company description

FIESSLER ELEKTRONIK

Service – worldwide

Fiessler Elektronik serves customers in all industrial regions of the world. The service network of Fiessler Elektronik is available in more than 30 countries.

These support points provide effective supervision to machine manufacturers as well as end users.

Branches

FIESSLER ELEKTRONIK

Foot-pedals & Safety foot-pedals

Quality made by Fiessler

Fiessler foot switches and safety foot switches are developed and produced exclusively in Germany. By using the highest quality materials, we guarantee the highest level of safety and extreme durability of our products.

Cable entry
1 x M20 x 1,5
2 x PG 13,5

Metal hood

Optionally
with a lever

Metal pedals

Mounting holes
in the housing

Hood from above
detachable

Optional with
Locking and
Release button

Metal hood

Pressure point
min. 200 N

Redundant
shutdown

Switching diagram

free position	pressure poin	pressed down

= Contact closed
= Contact open

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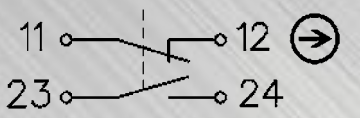
Foot-pedals

FE-FS1-U1-U-XX

The foot pedal FE-FS1-U1-U is equipped with a switching element, which contains one NC and one NO contact.
It may e.g. be used for the selection of AKAS® Box bending function or opening of a press.

Switching elements



Switching diagram

	free position	pressed
23-34		
11-12		

= Contact closed
= Contact open

Execution	**1-aluminum foot pedal heavy version free standing on slip elastic feet**
General technical characteristics	see table on page 22
Dimensional drawings	see page 23
Cable entry	M20 x 1,5
Switching insert	1 changeover contact, positive opening
Switching function	Changeover
Switching system	Creep mechanism
Order code	FE-FS1-U1-U-XX (XX = RD = cover fire red RAL 3000) (XX = YE = cover yellow RAL 1021)

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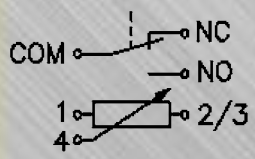
FE-FS1-SU1P10K-U-XX

The foot pedal FE-FS1-SU1P10-U is equipped with a change-over contact with potentiometer.
It may e.g. be used for continuous control tasks.

Switching elements



Execution	**1-aluminum foot pedal heavy version free standing on slip elastic feet**
General technical characteristics	see table on page 22
Dimensional drawings	see page 23
Switching current	max. 6 A. For inductive and capacitive loads, a contact protection must be provided
Cable entry	M20 x 1,5
Switching insert	1 changeover contact, 1 potentiometer
Switching function	Changeover
Switching system	Jump mechanism
Potentiometer	0 - 10kOhm ±3%, 0,5W, 35mA
Order code	FE-FS1-SU1P10K-U-XX (XX = RD = cover fire red RAL 3000)

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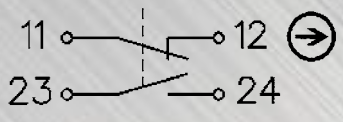
Foot-pedals

FE-FS2-U1/U1-U-XX

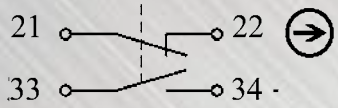
The foot pedal FE-FS1-U1/U1-U is equipped with switching elements, which contains one NC and one NO contact.
It may e.g. be used for the selection of AKAS® Box bending function or opening of a press.

Switching elements

Left pedal



Right pedal



Switching diagram

Left pedal

	free position	pressed
23-24		■
11-12	■	

■ = Contact closed
□ = Contact open

Right pedal

	free position	pressed
33-34		■
21-22	■	

■ = Contact closed
□ = Contact open

Execution		**2 aluminum foot pedal heavy version free standing on slip elastic feet**
General technical characteristics		see table on page 22
Dimensional drawings		see page 23
Cable entry		M20 x 1,5 (middle), 2x PG13,5
Switching insert	left pedal right pedal	1 changeover contact, positive opening 1 changeover contact, positive opening
Switching function	left pedal right pedal	Changeover Changeover
Switching system	left pedal right pedal	Creep mechanism Creep mechanism
Order code		FE-FS2-U1/U1-U-XX (XX = RD = cover fire red RAL 3000)

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FE-FS1-SU1ASDU1-U-XX

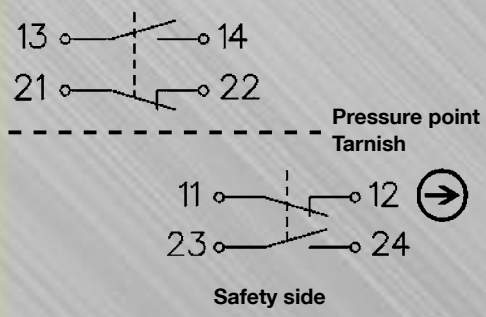
The foot pedal FE-FS1-SU1ASDU1-U have 3 positions with a pressure point, to control dangerous movements (for instance get down of a press brake ect...). It has 2 working contacts (1NC+1NO) to drive the movement and one safety switches (1 positive opening NC contact + 1NO) to stop the movement. Pressing 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.

Switching diagram

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

= Contact closed
= Contact open

Switching elements



Execution	**1-aluminum foot pedal heavy version free standing on slip elastic feet**
General technical characteristics	see table on page 22
Dimensional drawings	see page 23
Cable entry	M20 x 1,5
Switching insert	1 changeover contact with tarnish, after pressure point 1 changeover contact, positive opening
Switching function	Sequential circuit with pressure point
Pressure point	Min. 200 N operating force when use as intended
Switching system	Jump-/Creep mechanism
Order code	FE-FS1-SU1ASDU1-U-XX (XX = RD = cover fire red RAL 3000)

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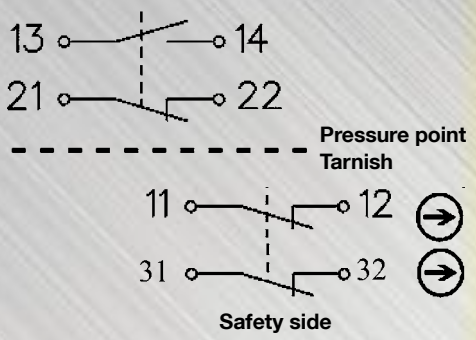
Safety foot-pedals

FE-FS1-SU1ASDO2-U-XX

The foot pedal FE-FS1-SU1ASDO2-U 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 (1NO and 1NC) to drive the movement and one safety switches (2 positive opening NC contacts) 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.

Switching elements



Switching diagram

	free position	pressure point	pressed down
13-14		■	
21-22	■		■
11-12	■	■	
31-32	■	■	

■ = Contact closed
□ = Contact open

Execution	**1-aluminum foot pedal heavy version free standing on slip elastic feet**
General technical characteristics	see table on page 22
Dimensional drawings	see page 23
Cable entry	M20 x 1,5
Switching insert	1 changeover contact with tarnish, after pressure point 2 NC contacts, positive opening
Switching function	Sequential circuit with pressure point
Pressure point	Min. 200 N operating force when used as intended
Switching system	Sprung-/Creep mechanism
Order code	FE-FS1-SU1ASDO2-U-XX (XX = RD = cover fire red RAL 3000)

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FE-FS1-SU1ASDO2V-U-XX

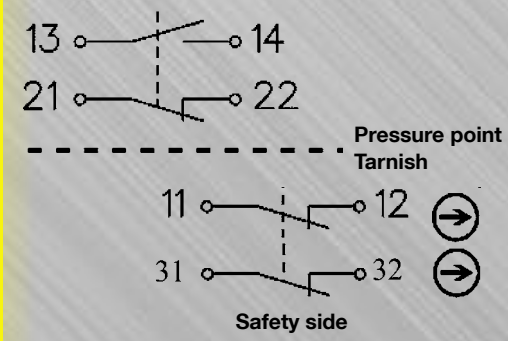
The foot pedal FE-FS1-SU1ASDO2V-U have 3 positions with a pressure point and a pedal lock with manual release, to control dangerous movements (for instance get down of a press brake ect...). It has 2 working contacts (1NO and 1NC) to drive the movement and one safety switches (2 positive opening NC contacts) 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.

Switching diagram

	free position	pressure point	pressed down
13-14			
21-22			
11-12			
31-32			

= Contact closed
= Contact open

Switching elements



Execution	**1-aluminum foot pedal heavy version, Pedal lock with manual release, free standing on slip elastic feet**
General technical characteristics	see table on page 22
Dimensional drawings	see page 23
Cable entry	M20 x 1,5
Switching insert	1 changeover contact with tarnish, after pressure point 2 NC contacts, positive opening
Switching function	Sequential circuit with pressure point
Pressure point	Min. 200 N operating force when used as intended
Switching system	Sprung-/Creep mechanism
Order code	FE-FS1-SU1ASDO2V-U-XX (XX = RD = cover fire red RAL 3000)

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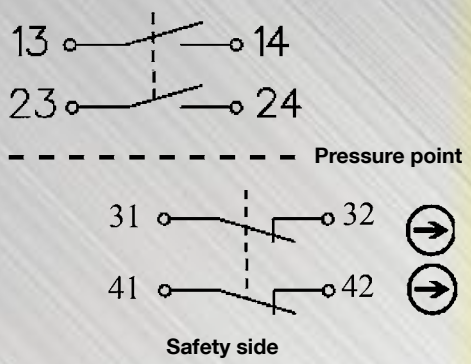
Safety foot-pedals

FE-FS1-S2DO2V-U-XX

The foot pedal FE-FS1-S2DO2V-U have 3 positions with a pressure point and a pedal lock with manual release, to control dangerous movements (for instance get down of a press brake ect...). It has 2 working contacts (2NO) to drive the movement and one safety switches (2 positive opening NC contacts) 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 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.

Switching elements



Switching diagram

	free position	pressure point	pressed down
13-14			
23-24			
31-32			
41-42			

= Contact closed
= Contact open

Execution	**1-aluminum foot pedal heavy version, Pedal lock with manual release, free standing on slip elastic feet**
General technical characteristics	see table on page 22
Dimensional drawings	see page 23
Cable entry	M20 x 1,5
Switching insert	2 NO contacts, after pressure point 2 NC contacts, positive opening
Switching function	Sequential circuit with pressure point
Pressure point	Min. 200 N operating force when use as intended
Switching system	Jump-/ creep mechanism
Order code	FE-FS1-S2DO2V-U-XX (XX = RD = cover fire red RAL 3000)

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FE-FS2-SU1ASDU1/U1-U-XX

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 change-over 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.

Switching diagram

Left pedal

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

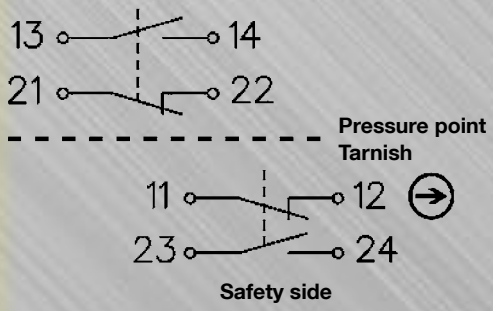
Right pedal

	free position	pressed
23-34		■
11-12	■	

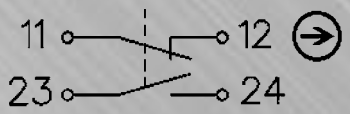
■ = Contact closed
□ = Contact open

Switching elements

Left pedal



Right pedal



Execution		**2 aluminum foot pedal heavy version free standing on slip elastic feet**
General technical characteristics		see table on page 22
Dimensional drawings		see page 23
Cable entry		M20 x 1,5 (middle), 2x PG13,5
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
Order code		FE-FS2-SU1ASDU1/U1-U-XX (XX = RD = cover fire red RAL 3000)

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

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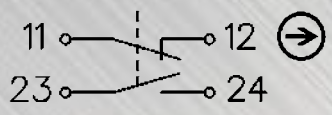
Safety foot-pedals

FE-FS2-U1/SU1ASDU1-U-XX

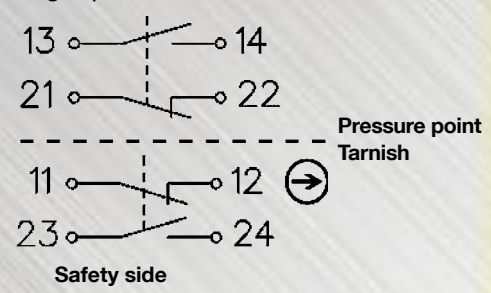
The safety foot pedal FE-FS2-U1/SU1ASDU1-U use safety switches. The left foot pedal have two positions (free position and pressed down position). It may e.g. be used for the selection of AKAS® Box bending function or opening of a press. The right foot pedal have 3 positions, with a pressure point, to 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.

Switching elements

Left pedal



Right pedal



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

Switching diagram

Left pedal

	free position	pressed
23-24		
11-12		

Right pedal

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

= Contact closed
= Contact open

Execution		**2 aluminum foot pedal heavy version free standing on slip elastic feet**
General technical characteristics		see table on page 22
Dimensional drawings		see page 23
Cable entry		M20 x 1,5 (middle), 2x PG13,5
Switching insert	left pedal right pedal	1 changeover contact, positive opening 1 changeover contact with tarnish, after pressure point 1 changeover contact, positive opening
Switching function	right pedal	Sequential circuit with pressure point
Pressure point	right pedal	Min. 200 N operating force when used as intended
Switching system	left pedal right pedal	Creep mechanism Sprung-/Creep mechanism
Order code		FE-FS2-U1/SU1ASDU1-U-XX (XX = RD = cover fire red RAL 3000)

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FE-FS2-SU1ASDU1/SU1ASDU1-U-XX

The safety foot pedal FE-FS2-SU1ASDU1/SU1ASDU1-U use safety switches. The two foot pedals have 3 positions, with a pressure point, to control dangerous movements (for instance get down of a press brake ect...). Each pedal has 2 working contacts (1NC+1NO) to drive the movement and one safety switch (1 positive opening NC contact and 1 NO contact) 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.

Switching diagram

Left pedal

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

Right pedal

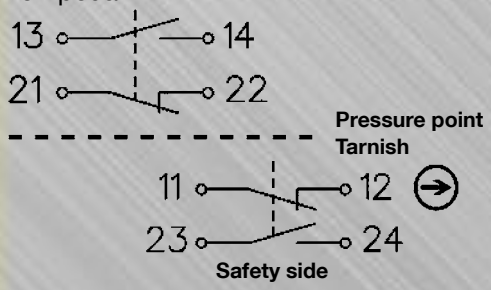
	free position	Pressure point	pressed down
13-14			
21-22			
11-12			
23-24			

= Contact closed = Contact open

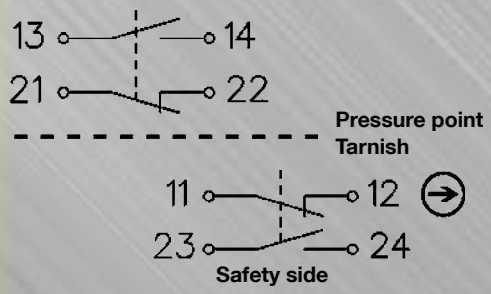
Execution		**2 aluminum foot pedal heavy version free standing on slip elastic feet**
General technical characteristics		see table on page 22
Dimensional drawings		see page 23
Cable entry		1x M20 x 1,5 (middle), 2x PG13,5
Switching insert	left pedal	1 changeover contact with tarnish, after pressure point 1 changeover contact, positive opening
	right pedal	1 changeover contact with tarnish, after pressure point 1 changeover contact, positive opening
Switching function	left pedal	Sequential circuit with pressure point
	right pedal	Sequential circuit with pressure point
Pressure point	left & right pedal	Min. 200 N operating force when used as intended
Switching system	left pedal	Jump-/Creep mechanism
	right pedal	Jump-/Creep mechanism
Order code		FE-FS2-SU1ASDU1/SU1ASDU1-U-XX (XX = RD = cover fire red RAL 3000)

Switching elements

Left pedal



Right pedal



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

FIESSLER ELEKTRONIK

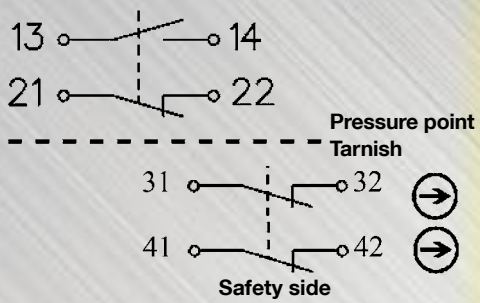
Safety foot-pedals

FE-FS2-SU1ASDO2/U1-U-XX

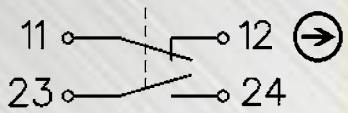
The safety foot pedal FE-FS2-SU1ASDO2/U1-U use safety switches.
The right foot pedal have two positions (free position and pressed down position). It may e.g. be used for the selection of AKAS® Box bending function or opening of a press. The left foot pedal have 3 positions, with a pressure point, to 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 (2 positive opening NC contacts) 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.

Switching elements

Left pedal



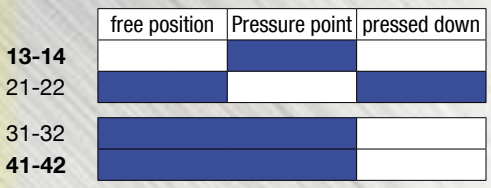
Right pedal



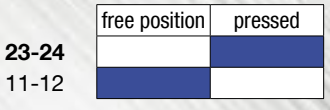
! The contacts for the left and right pedal must be clearly identified during the circuit diagram creation!

Switching diagram

Left pedal



Right pedal



= Contact closed
= Contact open

Execution		**2 aluminum foot pedal heavy version free standing on slip elastic feet**
General technical characteristics		see table on page 22
Dimensional drawings		see page 23
Cable entry		M20 x 1,5 (middle), 2x PG13,5
Switching insert	left pedal	1 changeover contact with tarnish, after pressure point 2 positive opening contacts
	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
Order code		FE-FS2-SU1ASDO2/U1-U-XX (XX = RD = cover fire red RAL 3000)

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FE-FS2-U1/SU1ASDO2-U-XX

The safety foot pedal FE-FS2-U1/SU1ASDO2-U use safety switches. The left 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 right 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 (2 positive opening NC contacts) 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.

Switching diagram

Left pedal

	free position	pressed
23-24		
11-12		

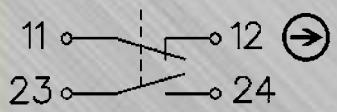
Right pedal

	free position	Pressure point	pressed down
13-14			
21-22			
31-32			
41-42			

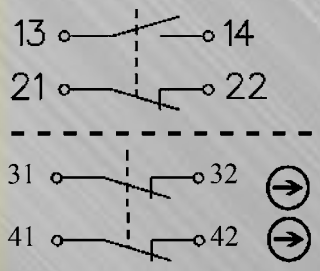
= Contact closed
= Contact open

Switching elements

Left pedal



Right pedal



Pressure point
Tarnish

Safety side

Execution		**2 aluminum foot pedal heavy version free standing on slip elastic feet**
General technical characteristics		see table on page 22
Dimensional drawings		see page 23
Cable entry		1x M20 x 1,5 (middle), 2x PG13,5
Switching insert	right pedal	1 changeover contact with tarnish, after pressure point 2 positive opening contacts
	left pedal	1 changeover contact, positive opening
Switching function	right pedal	Sequential circuit with pressure point
Pressure point	right pedal	Min. 200 N operating force when used as intended
Switching system	right pedal	Jump-/Creep mechanism
	left pedal	Creep mechanism
Order code		FE-FS2-U1/SU1ASDO2-U-XX (XX = RD = cover fire red RAL 3000)

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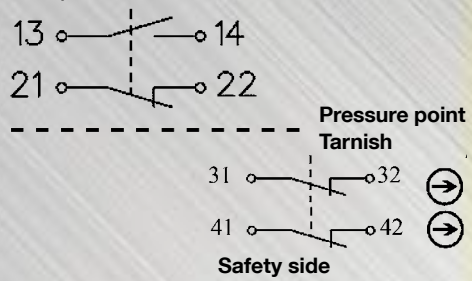
Safety foot-pedals

FE-FS2-SU1ASDO2/SU1ASDO2-U-XX

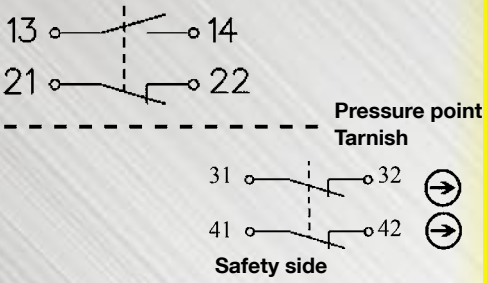
The safety foot pedal FE-FS2-SU1ASDO2/SU1ASDO2-U use safety switches. The two foot pedals have 3 positions, with a pressure point, to control dangerous movements (for instance get down of a press brake ect...). Each pedal has 2 working contacts (1NC+1NO) to drive the movement and one safety switch (2 positive opening NC contacts) 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.

Switching elements

Left pedal



Right pedal



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

Switching diagram

Left pedal

	free position	Pressure point	pressed down
13-14			
21-22			
31-32			
41-42			

Right pedal

	free position	Pressure point	pressed down
13-14			
21-22			
31-32			
41-42			

= Contact closed = Contact open

Execution		**2 aluminum foot pedal heavy version free standing on slip elastic feet**
General technical characteristics		see table on page 22
Dimensional drawings		see page 23
Cable entry		1x M20x1,5 (middle), 2x PG13,5
Switching insert	left pedal	1 changeover contact with tarnish, after pressure point 2 positive opening contacts
	right pedal	1 changeover contact with tarnish, after pressure point 2 positive opening contacts
Switching function	left pedal	Sequential circuit with pressure point
	right pedal	Sequential circuit with pressure point
Pressure point	left and right pedal	Min. 200 N operating force when use as intended
Switching system	left pedal	Jump-/Creep mechanism
	right pedal	Jump-/Creep mechanism
Order code		FE-FS2-SU1ASDO2/SU1ASDO2-U-XX (XX = RD = cover fire red RAL 3000)

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FE-FS2-U1/SU1ASDO2S-U-XX

The safety foot pedal FE-FS2-U1/SU1ASDO2S-U use safety switches and a lever. The left 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 right 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.

Switching diagram

Left pedal

	free position	pressed
23-24		
11-12		

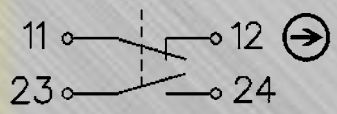
Right pedal

	free position	Pressure point	pressed down
13-14			
21-22			
31-32			
41-42			

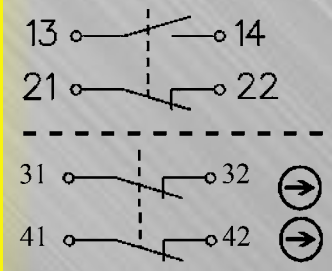
= Contact closed
= Contact open

Switching elements

Left pedal



Right pedal



Pressure point
Tarnish

Safety side

Execution	**2 aluminum foot pedal heavy version, with lever, free standing on slip elastic feet**
General technical characteristics	see table on page 22
Dimensional drawings	see page 23
Cable entry	1x M20 x 1,5 (middle), 2x PG13,5
Switching insert — left pedal	1 changeover contact, positive opening
Switching insert — right pedal	1 changeover contact with tarnish, after pressure point 2 positive opening contacts
Switching function — right pedal	Sequential circuit with pressure point
Pressure point — right pedal	Min. 200 N operating force when use as intended
Switching system — left pedal	Creep mechanism
Switching system — right pedal	Jump-/Creep mechanism
Order code	FE-FS2-U1/SU1ASDO2S-U-XX (XX = RD = cover fire red RAL 3000)

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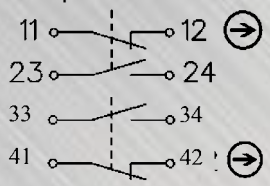
Safety foot-pedals

FE-FS2-U2/SU2ASDU1-U-XX

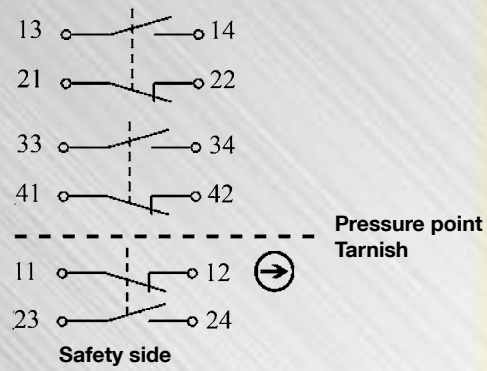
The safety foot pedal FE-FS2-U2/SU2ASDU1-U use safety switches. The left foot pedal have two positions (free position and pressed down position). It may e.g. be used for the selection of AKAS® Box bending function or opening of a press. The right foot pedal have 3 positions, with a pressure point, to 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.

Switching elements

Left pedal



Right pedal



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

Switching diagram

Left pedal

	free position	pressed
23-24		■
11-12	■	

	free position	pressed
33-34		■
41-42	■	

Right pedal

	free position	Pressure point	pressed down
13-14		■	
21-22	■		■
33-34		■	
41-42	■		■
11-12	■	■	
23-24			■

■ = Contact closed
□ = Contact open

Execution	**2 aluminum foot pedal heavy version free standing on slip elastic feet**
General technical characteristics	see table on page 22
Dimensional drawings	see page 23
Cable entry	1x M20x1,5 (middle), 2x PG13,5
Switching insert left pedal right pedal	2 changeover contacts, positive open 2 changeover contacts with tarnish,after pressure point 1 changeover contact, positive opening
Switching function right pedal	Sequential circuit with pressure point
Pressure point right pedal	Min. 200 N operating force when used as intended
Switching system left pedal right pedal	Creep mechanism Jump-/Creep mechanism
Order code	FE-FS2-U2/SU2ASDU1-U-XX (XX = RD = cover fire red RAL 3000)

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FE-FS2-S2ASDO2/U1-U-XX

The safety foot pedal FE-FS2-S2ASDO2/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 (2NO) to drive the movement and one safety switch (2 positive opening NC contact) 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.

Switching diagram

Left pedal

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

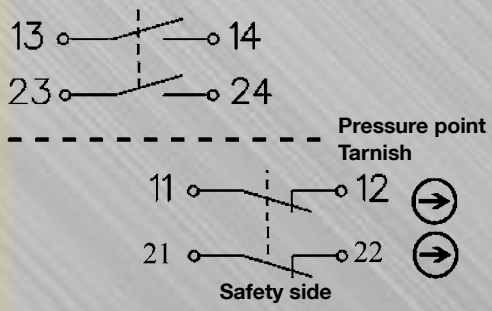
Right pedal

	free position	pressed
23-24		■
11-12	■	

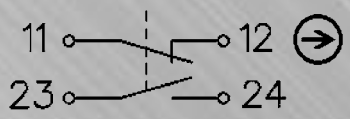
■ = Contact closed
□ = Contact open

Switching elements

Left pedal



Right pedal



Execution		**2 aluminum foot pedal heavy version free standing on slip elastic feet**
General technical characteristics		see table on page 22
Dimensional drawings		see page 23
Cable entry		M20 x 1,5 (middle), 2x PG13,5
Switching insert	left pedal	2 NO contacts with tarnish, after pressure point, 2 NC contacts, 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
Order code		FE-FS2-S2ASDO2/U1-U-XX (XX = RD = cover fire red RAL 3000)

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

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Technical data

General technical data for all standard- and safety foot-pedals

Deviations see table on the product page

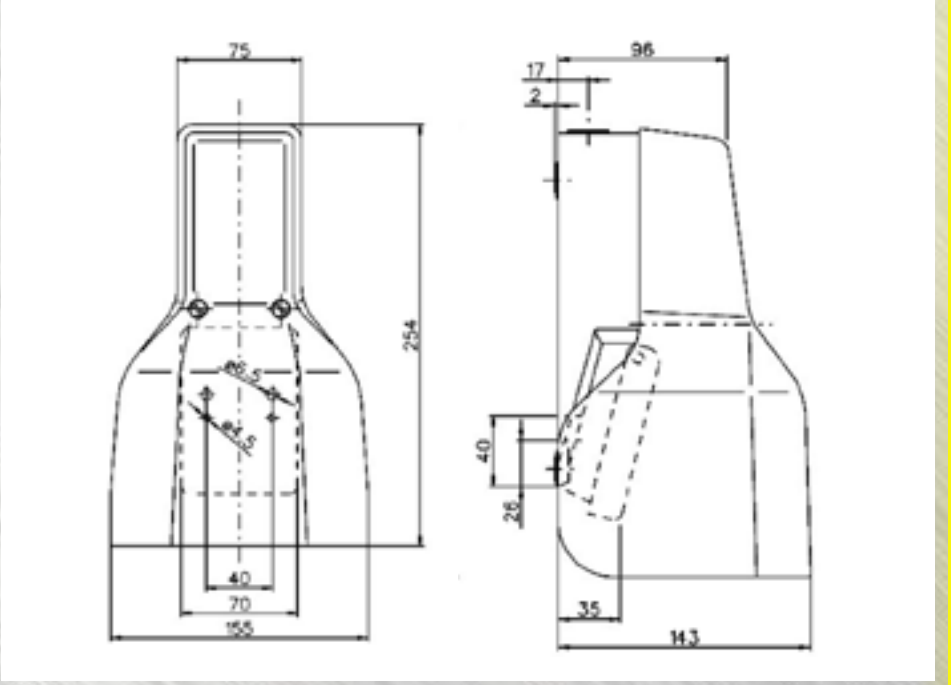
Execution	aluminum foot pedal, heavy version free standing on slip elastic feet
Switching current	max. 10 A. For inductive and capacitive loads, a contact protection must be provided.
Operations	min. 10 Mio.
Contact material	Silver
Connection type	Screwterminal
Electrical connection	0,5-1,5 mm^2
Housing	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
Regulations	IEC/EN 60947-5-1
Operating temperature	-30°C to +80°C

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!

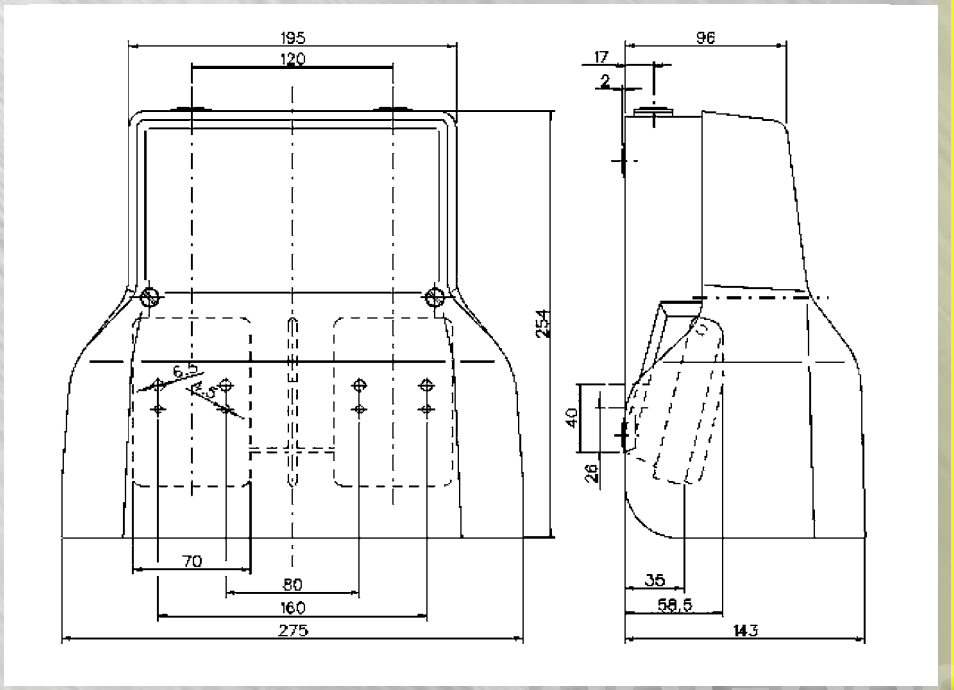
Different configurations of our foot switches are possible.
Please request a quotation stating the number of units required.

Dimensional drawings

Single pedal foot switches



Double pedal foot switches



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Safety products offered

Innovative solutions

Safety light curtains
Type 4, SIL 3, PL e
Type 2, SIL 1, PL c
Finger and hand guard, entrance protection
Blanking and cascading
Protective field height up to 2500 mm
high range up to 60 m
Very short response time as of 2 ms
Safety controller integrated

AKAS® press brake safety system
Fully automatic adjustment after tool change
Laser-optics safety light grid
Innovative finger guard through continuous bending without stop

FMSC safety PLC
Emergency shutdown (fast shut down) max. 0.5 ms
Easiest programming
Cat 4, SIL 3, PL e
Expandable with up to 16 expansion modules

Safety contact mats
Type 3, SIL 2, PL d
Series connection of up to ten mats
Load capacity up to 2000N
single component casting also in several colors
individual sizes and shapes
Polyurethane, aluminum or stainless steel surface
with integrally cast ramp rail available

Safety laser scanner
Cat 3, SIL 2, PL d
Protective field 4 m, range 7 m
Metering section 50 m range
Easy assembly
Warning field 15 m
Several programmable sections

Safety foot pedals
Single-pedal or double-pedal

Controlling, detecting and measuring
Measuring light curtains
Loop sensors
Directional counting light barriers
Hole detectors
Encoding strips

FIESSLER ELEKTRONIK

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PRD_FE_FS___engl_doc1908 • Stand 09/07/2021