

Ex foot switches

// Series EEx GF

Features/Options

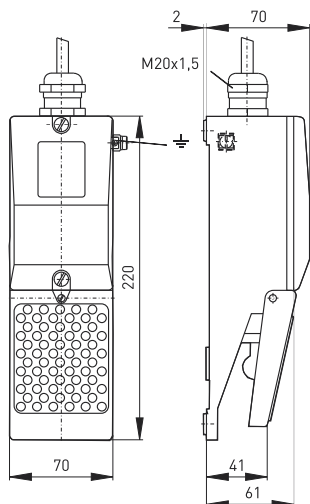
- Ex zone 1 and 2, as well as 21 and 22
- Metal enclosure
- Without protective shield
- Max. 2 contacts
- Low pedal height
- With pre-wired cable, cable length 3 metres
- Available with special finish in RAL colour tones
- Special version only for equipment category 3D, available for dust Ex zone 22
- Inmetro approval for Brazil to be ordered separately

Technical data

Standards	IEC/EN 60947-5-1; EN 50014; EN 50018; EN 50281-1-1
Enclosure	aluminium die casting, enamel finish, RAL 5011
Cover	glass-fibre reinforced thermoplastic
Pedal	glass-fibre reinforced thermoplastic
Protective shield	-
Termination	cable H05VV-F
Cable section	4 x 0.75 mm ²
Cable length	3 m
Contact material	silver
Protection class	IP 65 to IEC/EN 60529
Switching system	slow action with double break, positive break NC contact $\ominus$ or snap action with single break
Switch insert	slow action: EEx 14 snap action: EExM 14
Utilisation category	AC-15; DC-13
I_e/U_e	slow action: 6 A/250 VAC; 0.25 A/230 VDC snap action: 5 A/250 VAC; 0.25 A/230 VDC
Max. fuse rating	slow action: 6 A gL/gG D-fuse snap action: 5 A gL/gG D-fuse
Ambient temperature	-20 °C ... +65 °C, T5: +75 °C
Mechanical life	> 1 million operations
Ex certification	⊕ II 2G EEx d IIC T6, II 2D IP65 T80°C
Approvals	EEx GF: PTB 03 ATEX 1070 X; EEx GFM: PTB 03 ATEX 1069 X, referring to the switch insert



// EEX GF



Contact variants: switch travel/contacts

	Snap action	Slow action
1 NC/1 NO contact	EEx GFM BN GY BK	EEx GF 10/1S BN 11 12 BU BK 23 24 GY

Ordering details

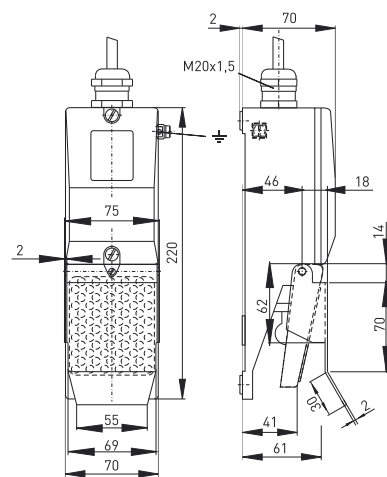
EEx GFM K 10/1S-3D	
	Equipment Categ. 3D, dust Ex zone 22
	1 NC/1 NO contact
	Pedal cover
	M Snap action (without M slow action)
	Series
	Ex certified component

Ex foot switches
// Series EEx GF, variants

// Pedal cover K



// Pedal cover K



Ex foot switches

// Series EEx GFS

Features/Options

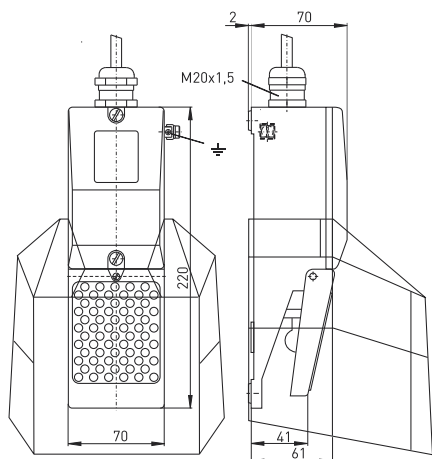
- Ex zone 1 and 2, as well as 21 and 22
- Metal enclosure
- With protective shield
- Max. 2 contacts
- Low pedal height
- With pre-wired cable, cable length 3 metres
- Available with special finish in RAL colour tones
- Special version only for equipment category 3D, available for dust Ex zone 22
- Inmetro approval for Brazil to be ordered separately

// EEX GFS



Technical data

Standards	IEC/EN 60947-5-1; EN 50014; EN 50018; EN 50281-1-1
Enclosure	aluminium die casting, enamel finish, RAL 5011
Cover	-
Pedal	glass-fibre reinforced thermoplastic
Protective shield	aluminium die casting, enamel finish, RAL 5011
Termination	cable H05VV-F
Cable section	4 x 0.75 mm ²
Cable length	3 m
Contact material	silver
Protection class	IP 65 to EN 60529
Switching system	slow action with double break, positive break NC contact $\ominus$ or snap action with single break
Switch insert	slow action: EEx 14 snap action: EExM 14
Utilisation category	AC-15; DC-13
I_e/U_e	slow action: 6 A/250 VAC; 0.25 A/230 VDC snap action: 5 A/250 VAC; 0.25 A/230 VDC
Max. fuse rating	slow action: 6 A gL/gG D-fuse snap action: 5 A gL/gG D-fuse
Ambient temperature	-20 °C ... +65 °C, T5: +75 °C
Mechanical life	> 1 million operations
Ex certification	⊕ II 2G EEx d IIC T6, II 2D IP65 T80°C
Approvals	EEx GFS: PTB 03 ATEX 1070 X; EEx GFSM: PTB 03 ATEX 1069 X, referring to the switch insert



Contact variants: switch travel/contacts

	Snap action	Slow action
1 NC/1 NO contact	EEx GFSM BN GY BK	EEx GFS 10/15 BN 11 12 BU BK 23 24 GY

Ordering details

EEx GFSM K 10/1S-3D
Equipment Categ. 3D, dust Ex zone 22
1 NC/1 NO contact
Pedal cover
M Snap action (without M slow action)
S Protective shield
Series
Ex certified component

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// Series EEx GFS, variants
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- Carrying handle: stainless steel 4104 with thermoplastic grip

A blue and yellow electronic device, likely a sensor or actuator, with a black cable extending from it. The device has a blue main body and a yellow component on top. It is shown against a white background.



The technical drawing illustrates the dimensions of the M20x1.5 pump assembly. The front view (left) shows a total height of 475 mm, a top width of 160 mm, and a base width of 120 mm. Key internal features include a central vertical channel with a diameter of 10 mm and a lower section with a grid pattern. The side view (right) shows a total height of 265 mm, a top width of 70 mm, and a base width of 147 mm. It also indicates a vertical distance of 250 mm from the top to the main body and 225 mm from the bottom to the main body. A 3D perspective view at the top right shows the top of the unit with a central screw labeled M20x1.5.

Ex foot switches

// Series EEx GFI

Features/Options

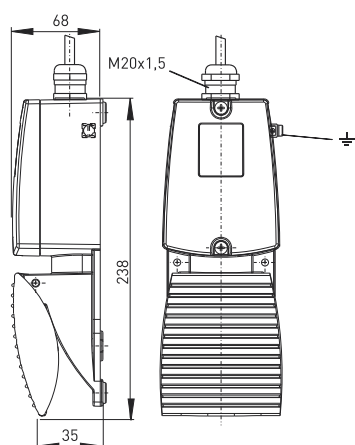
- Ex zone 1 and 2, as well as 21 and 22
- Metal enclosure
- Without protective shield
- Max. 2 contacts
- Low pedal height
- With pre-wired cable, cable length 3 metres
- Available with special finish in RAL colour tones
- Special version only for equipment category 3D, available for dust Ex zone 22
- Inmetro approval for Brazil to be ordered separately

// EEX GFI



Technical data

Standards	IEC/EN 60947-5-1; EN 50014; EN 50018; EN 50281-1-1
Enclosure	aluminium die casting, enamel finish, RAL 5011
Cover	aluminium die casting, enamel finish, RAL 2004
Pedal	aluminium die casting, enamel finish, RAL 5011
Protective shield	-
Termination	cable H05VV-F
Cable section	4 x 0.75 mm ²
Cable length	3 m
Contact material	silver
Protection class	IP 65 to EN 60529
Switching system	slow action with double break, positive break NC contact $\ominus$ or snap action with single break
Switch insert	slow action: EEx 14 snap action: EExM 14
Utilisation category	AC-15; DC-13
I_e/U_e	slow action: 6 A/250 VAC; 0.25 A/230 VDC snap action: 5 A/250 VAC; 0.25 A/230 VDC
Max. fuse rating	slow action: 6 A gL/gG D-fuse snap action: 5 A gL/gG D-fuse
Ambient temperature	-20 °C ... +65 °C, T5: +75 °C
Mechanical life	> 1 million operations
Ex certification	Ⓔ II 2G EEx d IIC T6, II 2D IP65 T80°C
Approvals	EEx GFI: PTB 03 ATEX 1070 X; EEx GFIM: PTB 03 ATEX 1069 X, referring to the switch insert



Contact variants: switch travel/contacts

	Snap action	Slow action
1 NC/1 NO contact	EEx GFIM BN GY BK	EEx GFI 10/1S BN 11 12 BU BK 23 24 GY

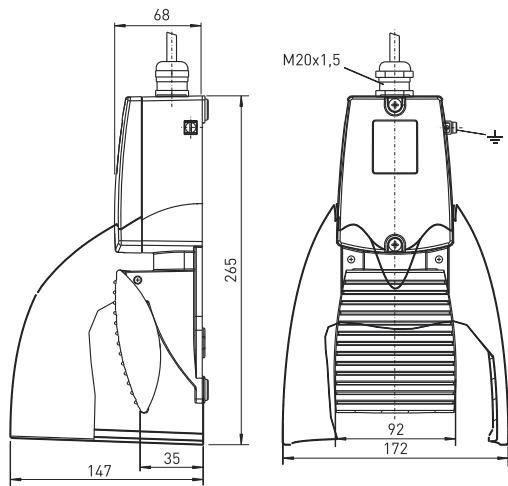
Ordering details

EEx GFIM 10/1S-3D

Equipment Categ. 3D,
dust Ex zone 22
1 NC/1 NO contact
M Snap action (without M slow action)
Series
Ex certified component

Ex foot switches
// Series EEx GFSI

- Features/Options
- Ex zone 1 and 2, as well as 21 and 22
 - Metal enclosure
 - With protective shield
 - Max. 2 contacts
 - Low pedal height
 - With pre-wired cable, cable length 3 metres
 - Available with special finish in RAL colour tones
 - Special version only for equipment category 3D, available for dust Ex zone 22
 - Inmetro approval for Brazil to be ordered separately



Technical data

Standards	IEC/EN 60947-5-1; EN 50014; EN 50018; EN 50281-1-1
Enclosure	aluminium die casting, enamel finish, RAL 5011
Cover	-
Pedal	aluminium die casting, enamel finish, RAL 5011
Protective shield	aluminium die casting, enamel finish, RAL 2004
Termination	cable H05VV-F
Cable section	4 x 0.75 mm ²
Cable length	3 m
Contact material	silver
Protection class	IP 65 to EN 60529
Switching system	slow action with double break, positive break NC contact ⊖ or snap action with single break
Switch insert	slow action: EEx 14 snap action: EExM 14
Utilisation category I _e /U _e	AC-15; DC-13 slow action: 6 A/250 VAC; 0.25 A/230 VDC snap action: 5 A/250 VAC; 0.25 A/230 VDC
Max. fuse rating	slow action: 6 A gL/gG D-fuse snap action: 5 A gL/gG D-fuse
Ambient temperature	-20 °C ... +65 °C, T5: +75 °C
Mechanical life	> 1 million operations
Ex certification	⊕ II 2G EEx d IIC T6, II 2D IP65 T80°C
Approvals	EEx GFSI: PTB 03 ATEX 1070 X; EEx GFSIM: PTB 03 ATEX 1069 X, referring to the switch insert



Contact variants: switch travel/contacts

	Snap action	Slow action
1 NC/1 NO contact	EEx GFSIM BN GY BK	EEx GFSI 10/1S BN 11 12 BU BK 23 24 GY

Ordering details

EEx GFSIM 10/1S-3D	Equipment Categ. 3D, dust Ex zone 22
	1 NC/1 NO contact
	M Snap action (ohne M Slow action)
	Series, S Protective shield
	Ex certified component

Ex foot switches

// Series EEx GF 2

Features/Options

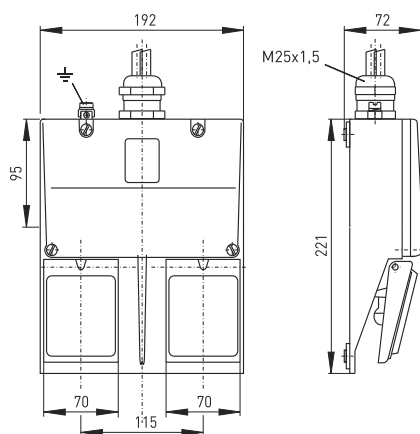
- Ex zone 1 and 2, as well as 21 and 22
- Metal enclosure
- Without protective shield
- Max. 2 contacts per pedal
- Low pedal height
- With pre-wired cable, cable length 3 metres
- Available with special finish in RAL colour tones
- Special version only for equipment category 3D, available for dust Ex zone 22
- Inmetro approval for Brazil to be ordered separately

// EEX GF 2



Technical data

Standards	IEC/EN 60947-5-1; EN 50014; EN 50018; EN 50281-1-1
Enclosure	aluminium die casting, enamel finish, RAL 5011
Cover	aluminium die casting, enamel finish, RAL 5011
Pedal	glass-fibre reinforced thermoplastic
Protective shield	-
Termination	cable H05VV-F
Cable section	4 x 0.75 mm ²
Cable length	3 m
Contact material	silver
Protection class	IP 65 to EN 60529
Switching system	slow action with double break, positive break NC contact ⊖ or snap action with single break
Switch insert	slow action: EEx 14 snap action: EExM 14
Utilisation category I _e /U _e	AC-15; DC-13 slow action: 6 A/250 VAC; 0.25 A/230 VDC snap action: 5 A/250 VAC; 0.25 A/230 VDC
Max. fuse rating	slow action: 6 A gL/gG D-fuse snap action: 5 A gL/gG D-fuse
Ambient temperature	-20 °C ... +65 °C, T5: +75 °C
Mechanical life	> 1 million operations
Ex certification	⊕ II 2G EEx d IIC T6, II 2D IP65 T80°C
Approvals	EEx GF 2: PTB 03 ATEX 1070 X; EEx GFM 2: PTB 03 ATEX 1069 X, referring to the switch insert



Contact variants: switch travel/contacts

	Snap action	Slow action
1 NC/1 NO contact per pedal	EEx GFM 2 BN GY BK	EEx GF 2 1ÖS/1ÖS BN 11 12 BU BK 23 24 GY

Ordering details

EEx GFM 2 1ÖS/1ÖS-3D
Equipment Categ. 3D, dust Ex zone 22
1 NC/1 NO contact per pedal
2 pedals
M Snap action (without M slow action)
Series
Ex certified component

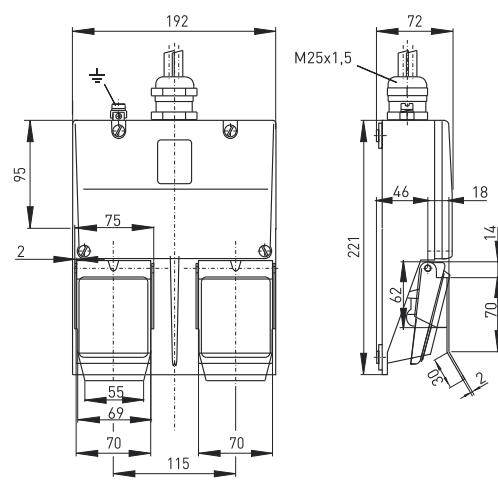
Ex foot switches

// Series EEx GF 2, variants

// Pedal cover K



// Pedal cover K



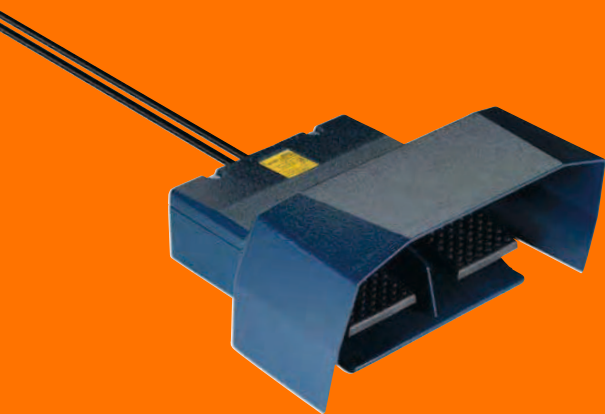
Ex foot switches

// Series EEx GFS 2

Features/Options

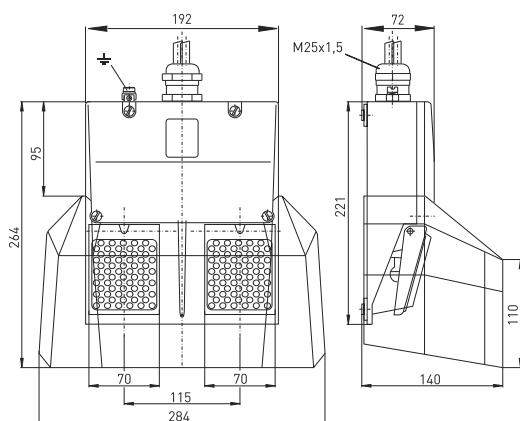
- Ex zone 1 and 2, as well as 21 and 22
- Metal enclosure
- With protective shield
- Max. 2 contacts per pedal
- Low pedal height
- With pre-wired cable, cable length 3 metres
- Available with special finish in RAL colour tones
- Special version only for equipment category 3D, available for dust Ex zone 22
- Inmetro approval for Brazil to be ordered separately

// EEX GFS 2



Technical data

Standards	IEC/EN 60947-5-1; EN 50014; EN 50018; EN 50281-1-1
Enclosure	aluminium die casting, enamel finish, RAL 5011
Cover	-
Pedal	glass-fibre reinforced thermoplastic
Protective shield	aluminium die casting, enamel finish, RAL 5011
Termination	cable H05VV-F
Cable section	4 x 0.75 mm ²
Cable length	3 m
Contact material	silver
Protection class	IP 65 to EN 60529
Switching system	slow action with double break, positive break NC contact ⊖ or snap action with single break
Switch insert	slow action: EEx 14 snap action: EExM 14
Utilisation category	AC-15; DC-13
I _e /U _e	slow action: 6 A/250 VAC; 0.25 A/230 VDC snap action: 5 A/250 VAC; 0.25 A/230 VDC
Max. fuse rating	slow action: 6 A gL/gG D-fuse snap action: 5 A gL/gG D-fuse
Ambient temperature	-20 °C ... +65 °C, T5: +75 °C
Mechanical life	> 1 million operations
Ex certification	⊕ II 2G EEx d IIC T6, II 2D IP65 T80°C
Approvals	EEx GFS 2: PTB 03 ATEX 1070 X; EEx GFSM 2: PTB 03 ATEX 1069 X, referring to the switch insert



Contact variants: switch travel/contacts

	Snap action	Slow action
1 NC/1 NO contact per pedal	EEx GFSM 2 BN GY BK	EEx GFS 2 10S/10S BN 11 12 BU BK 23 24 GY

Ordering details

EEx GFSM 2 K 10S/10S-3D
Equipment Categ. 3D, dust Ex zone 22
1 NC/1 NO contact per pedal
Pedal cover
2 pedals
M Snap action (without M slow action)
S Protective shield
Series
Ex certified component

Ex foot switches

// Series EEx GFS 2, variants

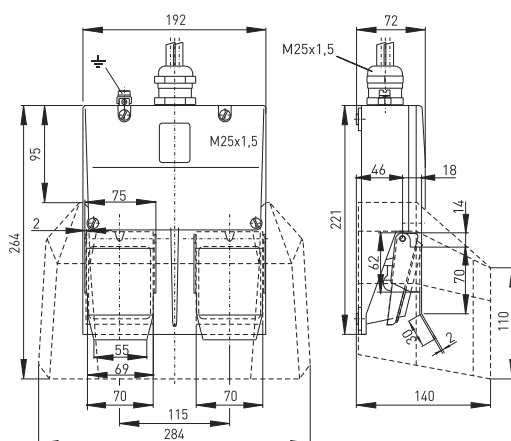
Features/Options

- Carrying handle:
stainless steel 4104 with thermoplastic grip

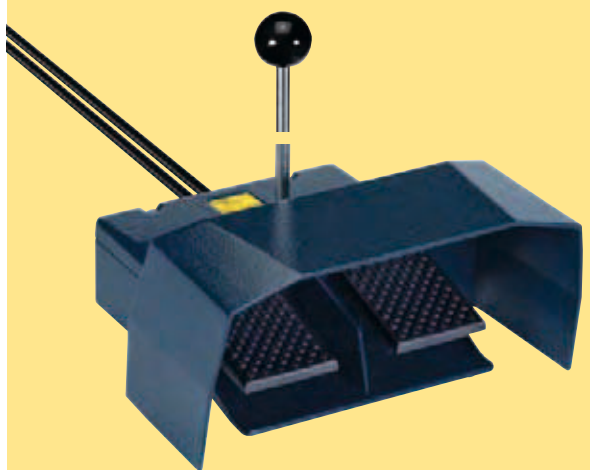
// Pedal cover K



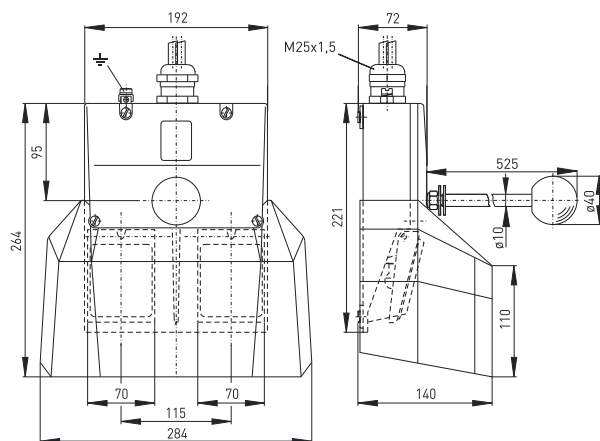
// Pedal cover K



// Carrying handle TST



// Carrying handle TST



Ex foot switches

// Series EEx GF 3

Features/Options

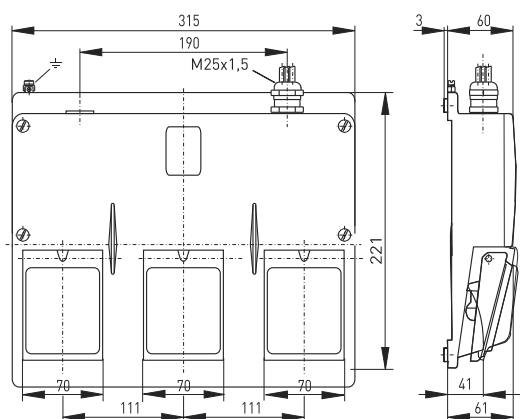
- Ex zone 1 and 2, as well as 21 and 22
- Metal enclosure
- Without protective shield
- Max. 2 contacts per pedal
- Low pedal height
- With pre-wired cable, cable length 3 metres
- Available with special finish in RAL colour tones
- Special version only for equipment category 3D, available for dust Ex zone 22
- Inmetro approval for Brazil to be ordered separately

// EEX GF 3



Technical data

Standards	IEC/EN 60947-5-1; EN 50014; EN 50018; EN 50281-1-1
Enclosure	aluminium die casting, enamel finish, RAL 5011
Cover	aluminium die casting, enamel finish, RAL 5011
Pedal	glass-fibre reinforced thermoplastic
Protective shield	-
Termination	cable H05VV-F
Cable section	4 x 0.75 mm ²
Cable length	3 m
Contact material	silver
Protection class	IP 65 to EN 60529
Switching system	slow action with double break, positive break NC contact ⊖ or snap action with single break
Switch insert	slow action: EEx 14 snap action: EExM 14
Utilisation category I _e /U _e	AC-15; DC-13 slow action: 6 A/250 VAC; 0.25 A/230 VDC snap action: 5 A/250 VAC; 0.25 A/230 VDC
Max. fuse rating	slow action: 6 A gL/gG D-fuse snap action: 5 A gL/gG D-fuse
Ambient temperature	-20 °C ... +65 °C, T5: +75 °C
Mechanical life	> 1 million operations
Ex certification	⊕ II 2G EEx d IIC T6, II 2D IP65 T80°C
Approvals	EEx GF 3: PTB 03 ATEX 1070 X; EEx GFM 3: PTB 03 ATEX 1069 X, referring to the switch insert



Contact variants: switch travel/contacts

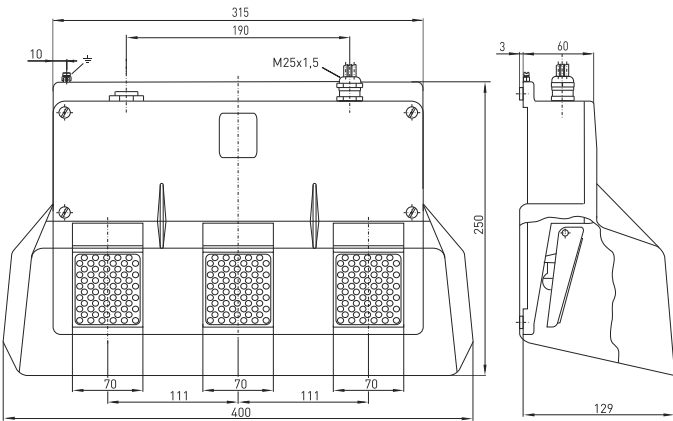
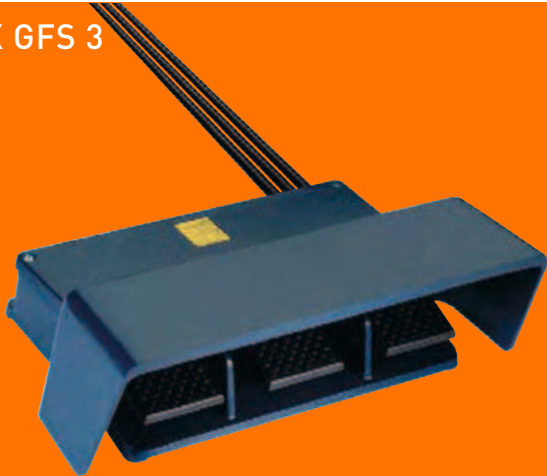
	Snap action	Slow action
1 NC/1 NO contact per pedal	EEx GFM 3 BN GY BK	EEx GF 3 10S/10S/10S BN 11 12 BU BK 23 24 GY

Ordering details

EEx GFM 3 K 10S/10S/10S-3D	
	Equipment Category 3D, dust Ex zone 22
	1 NC/1 NO contact per pedal
	Pedal cover
	3 pedals
	M Snap action (without M slow action)
	Series
	Ex certified component

Ex foot switches
// Series EEx GFS 3

// EEX GFS 3



Features/Options

- Ex zone 1 and 2, as well as 21 and 22
- Metal enclosure
- With protective shield
- Max. 2 contacts per pedal
- Low pedal height
- With pre-wired cable, cable length 3 metres
- Available with special finish in RAL colour tones
- Special version only for equipment category 3D, available for dust Ex zone 22
- Inmetro approval for Brazil to be ordered separately

Technical data

Standards	IEC/EN 60947-5-1; EN 50014; EN 50018; EN 50281-1-1
Enclosure	aluminium die casting, enamel finish, RAL 5011
Cover	-
Pedal	glass-fibre reinforced thermoplastic
Protective shield	aluminium die casting, enamel finish, RAL 5011
Termination	cable H05VV-F
Cable section	4 x 0.75 mm ²
Cable length	3 m
Contact material	silver
Protection class	IP 65 to EN 60529
Switching system	slow action with double break, positive break NC contact $\ominus$ or snap action with single break
Switch insert	slow action: EEx 14 snap action: EExM 14
Utilisation category	AC-15; DC-13
I _e /U _e	slow action: 6 A/250 VAC; 0.25 A/230 VDC snap action: 5 A/250 VAC; 0.25 A/230 VDC
Max. fuse rating	slow action: 6 A gL/gG D-fuse snap action: 5 A gL/gG D-fuse
Ambient temperature	-20 °C ... +65 °C, T5: +75 °C
Mechanical life	> 1 million operations
Ex certification	⊕ II 2G EEx d IIC T6, II 2D IP65 T80°C
Approvals	EEx GFS 3: PTB 03 ATEX 1070 X; EEx GFSM 3: PTB 03 ATEX 1069 X, referring to the switch insert

269

Contact variants: switch travel/contacts

	Snap action	Slow action
1 NC/1 NO contact per pedal	EEx GFSM 3 BN GY BK	EEx GFS 3 10S/10S/10S BN 11 12 BU BK 23 24 GY

Ordering details

EEx GFSM 3 K 10S/10S/10S-3D

Equipment Category 3D, dust Ex zone 22
1 NC/1 NO contact per pedal
Pedal cover
3 pedals
M Snap action (without M slow action)
S Protective shield
Series
Ex certified component