

**Application**

Ex foot switches are mounted on machines and plants in cases where operation manual operation is not possible.

Design and mode of operation

All the EEx GFS range switches are mounted with a shield to prevent unintentional actuation and to protect against falling objects.

The Ex foot switches are of protection class IP 65.

Features EEx GF

- Max. 2 contacts per pedal
- Metal enclosure
- With up to 3 pedals
- Available with various paint finishes

EEx GFS

- Max. 2 contacts per pedal
- Metal enclosure
- Protective shield
- With up to 3 pedals
- Available with various paint finishes

EEx GFI

- Max. 2 contacts per pedal
- Metal enclosure
- 1 pedal
- Available with various paint finishes

EEx GFSI

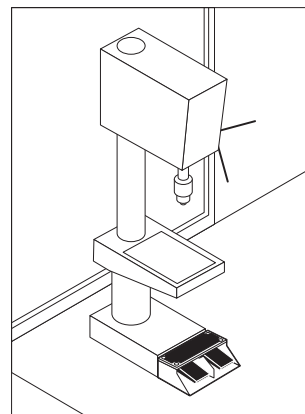
- Max. 2 contacts per pedal
- Metal enclosure
- Protective shield
- 1 pedal
- Available with various paint finishes

Cable length

- the Ex foot switches are equipped with a 3 m long cable
- other lengths on enquiry

Note

Technical data are shown in tabular form in chapter 5.5.

Application

5.
5.1 Ex switchgear
Foot switches
Single-pedal types: EEx GF and EEx GFS range



Features

- Max. 2 contacts
- Metal enclosure
- II 2G EEx d IIC T6
II 2D IP65 T80°C
- With or without protective shield
- Wide opening in shield
- Low pedal height
- Pre-wired cable 3 m long
- Available with special finish in RAL colour tones

Info

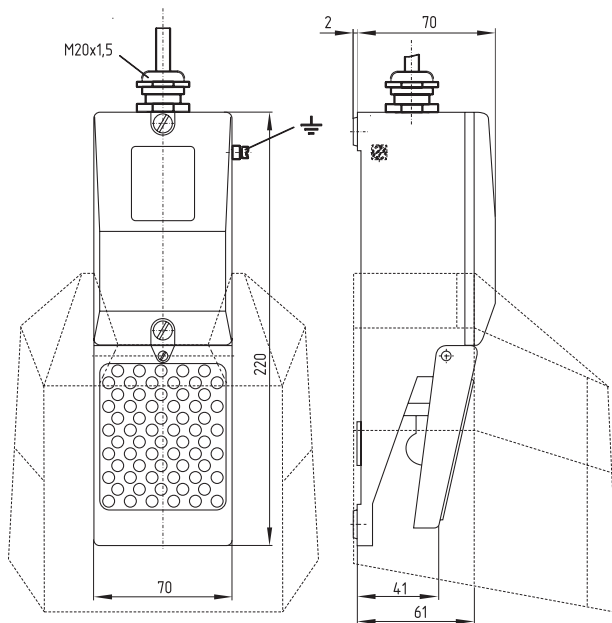
Version for equipment category 3D (dust-Ex zone 22) available, Ordering suffix: -3D

Note

Other contact configurations available on enquiry (Max. 2 contacts per pedal).

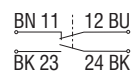
Approvals

EC Type test certificate:
EEx GF(S): PTB 03 ATEX 1070 X*
EEx GF(S)M: PTB 03 ATEX 1069 X*
* referring to the switch insert



Contacts

1 NO
1 NC



1 Change-over contact



Slow action Without protective shield
With protective shield

EEx GF 1Ö/1S
EEx GFS 1Ö/1S

-
-

Snap action Without protective shield
With protective shield

-
-

EEx GFM
EEx GFSM

5.
5.2

Ex switchgear
Foot switches
Double-pedal types: EEx GF 2 and EEx GFS 2 range



Features

- Max. 2 contacts per pedal
- Metal enclosure
- II 2G EEx d IIC T6
II 2D IP65 T80°C
- With or without protective shield
- Pre-wired cable 3 m long
- Available with special finish in RAL colour tone

Info

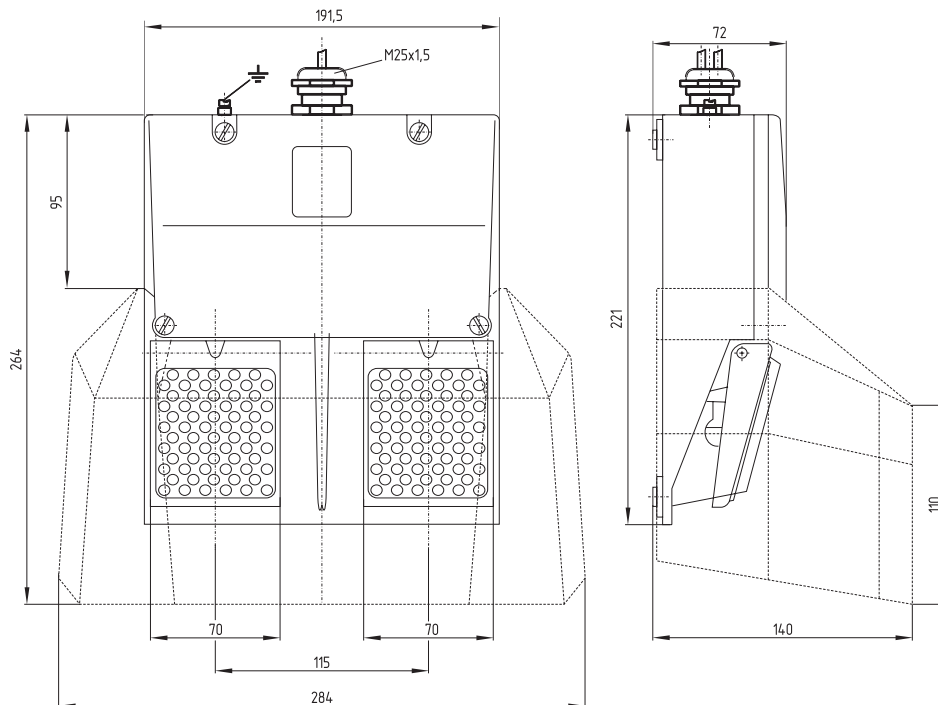
Version for equipment category 3D (dust-Ex zone 22) available, Ordering suffix: -3D

Note

Other contact configurations available on enquiry (Max. 2 contacts per pedal).

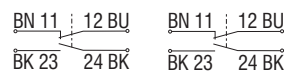
Approvals

EC Type test certificate:
EEx GF(S): PTB 03 ATEX 1070 X*
EEx GF(S)M: PTB 03 ATEX 1069 X*
* referring to the switch insert



Contacts

1 NO 1 NO
1 NC 1 NC



1 Change-over contact
1 Change-over contact



Slow action Without protective shield
 With protective shield

EEx GF 2 1ÖS/1ÖS
EEx GFS 2 1ÖS/1ÖS

-
-

Snap action Without protective shield
 With protective shield

-
-

EEx GFM 2
EEx GFSM 2



Features

- Max. 2 contacts per pedal
- Metal enclosure
- II 2G EEx d IIC T6
II 2D IP65 T80°C
- With or without protective shield
- Pre-wired cable 3 m long
- Available with special finish in RAL colour tones

Info

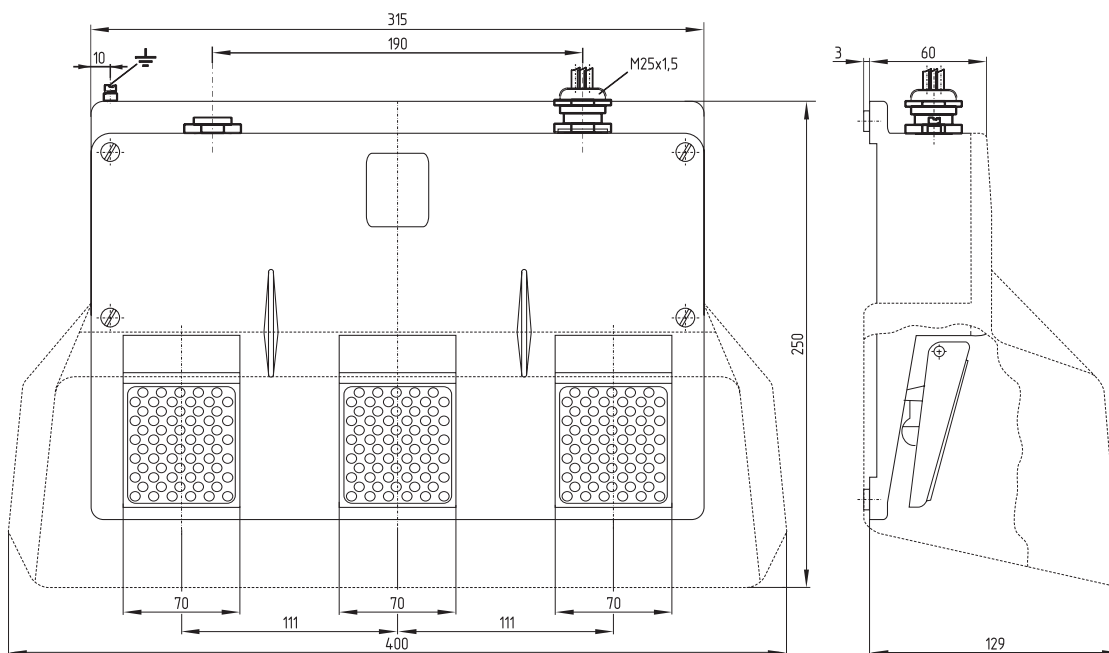
Version for equipment category 3D (dust-Ex zone 22) available, Ordering suffix: -3D

Note

Other contact configurations available on enquiry (Max. 2 contacts per pedal).

Approvals

EC Type test certificate:
EEx GF(S): PTB 03 ATEX 1070 X*
EEx GF(S)M 3: PTB 03 ATEX 1069 X*
* referring to the switch insert



Contacts

1 NO 1 NC	1 NO 1 NC	1 NO 1 NC	Change-over contact	Change-over contact	Change-over contact
BN 11 12 BU BK 23 24 BK	BN 11 12 BU BK 23 24 BK	BN 11 12 BU BK 23 24 BK	2 BN 1 4 BK BU	2 BN 1 4 BK BU	2 BN 1 4 BK BU

Slow action without protective shield
with protective shield

EEx GF 3 1ÖS/1ÖS/1ÖS
EEx GFS 3 1ÖS/1ÖS/1ÖS

-
-

Snap action without protective shield
with protective shield

-
-

EEx GFM 3
EEx GFSM 3

1
5.
5.4

Ex switchgear
Foot switches
Single-pedal types: EEx GFI and EEx GFSI range



Features

- Max. 2 contacts
- Metal enclosure
- II 2G EEx d IIC T6
II 2D IP65 T80°C
- With or without protective shield
- Wide opening in shield
- Ergonomic pedal shape
- Pre-wired cable 3 m long
- Available with special finish in RAL colour tones

Info

Version for equipment category 3D (dust-Ex zone 22) available, Ordering suffix: -3D

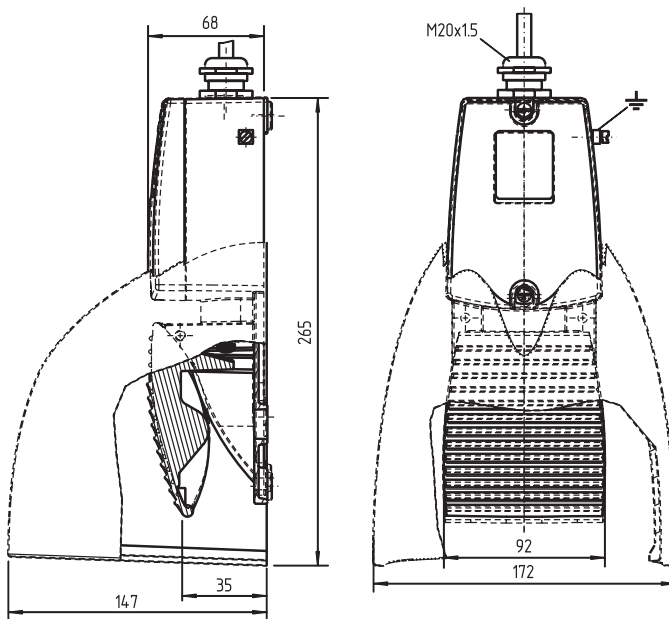
Note

Other contact configurations available on enquiry (Max. 2 contacts per pedal).

Approvals

EC Type test certificate:
PTB 03 ATEX 1070 X*

* referring to the switch insert



Contacts

1 NO
1 NC
BN 11 : 12 BU
BK 23 : 24 BK

Slow action Without protective shield
With protective shield

EEx GFI 1Ö/1S
EEx GFSI 1Ö/1S

5.
5.5

Ex switchgear
Foot switches
Technical data



	EEx GF	EEx GF 2	EEx GF 3
Standards:	IEC/EN 60947-5-1; EN 50014; EN 50018; EN 50281-1-1		
Ex marking:	Ⓔ II 2G EEx d IIC T6 II 2D IP65 T80°C		
Certification:	EEx GF: PTB 03 ATEX 1070 X*; EEx GFM: PTB 03 ATEX 1069 X*		
Switch insert:	EEx 14; EExM 14		
Enclosure material:	Aluminium die-cast, enamel finish		Aluminium cast, enamel finish
Cover material:	Glass-fibre reinforced thermoplastic	Aluminium cast, enamel finish	
Pedal material:	Glass-fibre reinforced thermoplastic		
Protective shield material:	-		
Termination:	Cable H 05 VV-F 4 x 0.75 mm ² , length 3 m		
Protection class:	IP 65 to IEC/EN 60529		
Switching system:	Snap or slow action		
Utilisation category:	AC-15; DC-13		
Rated operating			
current/voltage I _e /U _e :	6 A/250 VAC; 0.25 A/230 VDC		
Max. fuse rating:	6 A gL/gG D-fuse		
Ambient temperature:	-20 °C ... +65 °C		
Mechanical life:	> 1 million operations		



* referring to the switch insert

5.
5.5

Ex switchgear
Foot switches
Technical data



	EEx GFS	EEx GFS 2	EEx GFS 3
Standards:	IEC/EN 60947-5-1; EN 50014; EN 50018; EN 50281-1-1		
Ex marking:	Ⓔ II 2G EEx d IIC T6 II 2D IP65 T80°C		
Certification:	EEx GFS: PTB 03 ATEX 1070 X*; EEx GFSM: PTB 03 ATEX 1069 X*		
Switch insert:	EEx 14; EExM 14		
Enclosure material:	Aluminium die-cast, enamel finish		Aluminium cast, enamel finish
Cover material:	–		
Pedal material:	Glass-fibre reinforced thermoplastic		
Protective shield material:	Same like enclosure		
Termination:	Cable H 05 VV-F 4 x 0.75 mm ² , length 3 m		
Protection class:	IP 65 to IEC/EN 60529		
Switching system:	Snap or slow action		
Utilisation category:	AC-15; DC-13		
Rated operating			
current/voltage I _e /U _e :	6 A/250 VAC; 0.25 A/230 VDC		
Max. fuse rating:	6 A gL/gG D-fuse		
Ambient temperature:	–20 °C ... +65 °C		
Mechanical life:	> 1 million operations		

* referring to the switch insert

5.
5.5

Ex switchgear
Foot switches
Technical data



	EEx GFI	EEx GFSI
Standards:	IEC/EN 60947-5-1; EN 50014; EN 50018; EN 50281-1-1	
Ex marking:	Ⓔ II 2G EEx d IIC T6 II 2D IP65 T80°C	
Certification:	PTB 03 ATEX 1070 X*	
Switch insert:	EEx 14	
Enclosure material:	Aluminium die-cast, enamel finish	
Cover material:	Same like enclosure	–
Pedal material:	Glass-fibre reinforced thermoplastic	
Protective shield material:	–	Same like enclosure
Termination:	H 05 VV-F 4 x 0.75 mm ² , length 3 m	
Protection class:	IP 65 to IEC/EN 60529	
Switching system:	Slow action	
Utilisation category:	AC-15; DC-13	
Rated operating		
current/voltage I _e /U _e :	6 A/250 VAC; 0.25 A/230 VDC	
Max. fuse rating:	6 A gL/gG D-fuse	
Ambient temperature:	–20 °C ... +65 °C	
Mechanical life:	> 1 million operations	

* referring to the switch insert