



# IECEx Certificate of Conformity

## INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit [www.iecex.com](http://www.iecex.com)

Certificate No.: **IECEx BVS 20.0051X** Page 1 of 3 [Certificate history:](#)

Status: **Current** Issue No: 0

Date of Issue: 2020-07-30

Applicant: **EFD Elektrotechnische Fabrik Düsseldorf GmbH**  
Eichsfelder Straße 17  
40595 Düsseldorf  
Germany

Equipment: **Emergency pull-wire switch type SNA\*-\* \*-Ex and Position switch type P\*A\*-\* S-Ex**

Optional accessory:

Type of Protection: **Equipment dust ignition protection by enclosure "t"**

Marking: Ex tb IIIC T90°C Db

Approved for issue on behalf of the IECEx  
Certification Body:

**Dr Franz Eickhoff**

Position:

**Lead Auditor and officially recognised expert**

Signature:  
(for printed version)

Date:

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting [www.iecex.com](http://www.iecex.com) or use of this QR Code.



Certificate issued by:

**DEKRA Testing and Certification GmbH**  
Certification Body  
Dinnendahlstrasse 9  
44809 Bochum  
Germany

 **DEKRA**  
On the safe side.



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Manufacturer: **EFD Elektrotechnische Fabrik Düsseldorf GmbH**  
Eichsfelder Straße 17  
40595 Düsseldorf  
Germany

Additional  
manufacturing  
locations:

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended

## STANDARDS :

The equipment and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards

**IEC 60079-0:2017** Explosive atmospheres - Part 0: Equipment - General requirements  
Edition:7.0

**IEC 60079-31:2013** Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"  
Edition:2

This Certificate **does not** indicate compliance with safety and performance requirements other than those expressly included in the Standards listed above.

## TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in:

Test Report:

[DE/BVS/ExTR20.0048/00](#)

Quality Assessment Report:

[DE/BVS/QAR20.0001/00](#)



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## EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

### Description

The Emergency pull-wire switch type SNA\*-\* \* \*-Ex and Position switch type P\*A\*-\* S-Ex have an aluminium enclosure.

The Emergency pull-wire switch is used to initiate an emergency stop command. The position switch can be used as a belt misalignment switch, limit switch or limit switch with direction detection.

### Subject and Type

See Annex

### Parameters

#### 1 Electrical data

##### 1.1 Emergency pull-wire switch type SNA\*-\* \* \*-Ex

Switching voltage	max.	230	V AC
Switching current	max.	6	A AC

or

Switching voltage	max.	110	V DC
Switching current	max.	1.1	A DC

##### 1.2 Position switch type P\*A\*-\* S-Ex

Switching voltage	max.	230	V AC
Switching current	max.	1.5	A AC

#### 2 Thermal data

Permitted ambient temperature range -40 °C up to +70°C

### SPECIFIC CONDITIONS OF USE: YES as shown below:

The equipment shall not be used in areas where an intensive electrostatic charge is to be expected.

### Annex:

[BVS\\_20\\_0051X\\_EFD\\_Annex.pdf](#)



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**Annex**  
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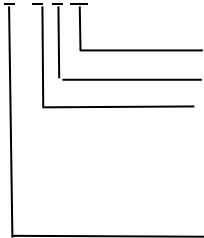
## Subject and Type

Emergency pull-wire switch type SNA\*.\*.\*-Ex



- S – contacts silver
- G – contacts gold
- Number of opener (NC): 1, 2 or 3
- Normally open contact (NO): 1, 2 or 3
- Number of cable entries
- 2 – standard: 2 x M25
- 3 – 2 x M20
- 4 – 4 x M20

and Position switch type P\*A\*.\* S-Ex



- S – contacts silver
- Switching contact changeover: 1, 2, 3 or 4
- Number of cable entries
- 2 – standard: 2 x M25
- 3 – 2 x M20
- 4 – 4 x M20
- S – belt misalignment switch
- E – limit switch
- R – Limit switch with direction detection