

Meister Strömungstechnik GmbH
Im Gewerbegebiet 2
63831 Wiesen
Germany

Manufacturer's declaration

to the application of switch contacts,
Series SG-15EX***** with
EC-Type Examination Certificate
EPS 13 ATEX 1 596 U

The switch contact may only be used in conjunction with flow meters (hereinafter referred as „device units“), which have previously been approved by us.
The safety concept and its implementation by the operator of the plant, in which the device unit is used, must have mandatory, multiple levels of redundancy.
The device unit is not certified for employment as exclusive safety component in the event of a breakdown, disruption, or malfunction, which may cause damage or injury to persons, animals or property.
Therefore, the operator is solely liable; the liability of the manufacturer is, to the extent legally permitted, excluded.

Place and date

Wiesen, July 8, 2014

Legally binding signature of the authorized person



Rosemarie Mill
Managing Director



**BUREAU
VERITAS**



(1) **EC-Type Examination Certificate**

(2) Equipment and Protective Systems Intended for Use in Potentially Explosive Atmospheres –
Directive 94/9/EC

(3) EC-Type Examination Certificate Number

EPS 13 ATEX 1 596 U

Revision: 0

(4) Component: switching contact SG-15EX*****

(5) Manufacturer: Meister Strömungstechnik GmbH

(6) Address: Im Gewerbegebiet 2, 63831 Wiesen, Germany

(7) This component and any acceptable variation thereto are specified in the schedule to this certificate and the documents therein referred to.

(8) Bureau Veritas Consumer Products Services Germany GmbH, Notified Body No. 2004 in accordance with Article 9 of the Council Directive 94/9/EC of March 23rd 1994, certifies that this component has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres, given in Annex II of the Directive. The examination and test results are recorded in the confidential report 13TH0246.

(9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN 60079-0:2012

EN 60079-11:2012

(10) The sign "U" placed behind the certificate number indicates that this certificate should not be confounded with certificates issued for equipment or protective systems. This component certificate only serves as a basis for the issuing of certificates for equipment or protective systems.

(11) This EC-Type Examination Certificate relates only to the design and the construction of the specified component in accordance with Directive 94/9/EC. Further requirements of this Directive apply to the manufacture and supply of this component.

(12) The marking of the component shall include the following:

II 2G Ex ib IIC

II 2D Ex ib IIIC

Certification department of explosion protection

Türkheim, March 18, 2014

D. Zitzmann



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Certificates without signature are void. This certificate is allowed to be distributed only if not modified.
Extracts or modifications must be authorized by Bureau Veritas Consumer Products Services Germany GmbH.
EPS 13 ATEX 1 596 U Rev. 0



(13)

Annexe

(14) **EC-Type Examination Certificate EPS 13 ATEX 1 596 U**

(15) Description of component:

The sealed switching contact is used on mechanical flow meters for electrical monitoring of flow limits and for connection to certified intrinsically safe circuits.

The operating temperature of $-5^{\circ}\text{C} < T_{\text{service}} < +45^{\circ}\text{C}$ must not fall below or exceeded.

Electrical data:

Li = 0 Ci = 0

Gas		
Ui	Ii	Pi
< 12,1 V	1,0 A	3,0 W
< 20 V	0,309 A	1,55 W
< 25 V	0,158 A	0,99 W
< 30 V	0,101 A	0,76 W

Dust		
Ui	Ii	Pi
< 12,1 V	0,250 A	0,75 W
< 20 V	0,250 A	0,75 W
< 25 V	0,250 A	0,75 W
< 30 V	0,250 A	0,75 W

(16) Test report: 13TH0246

(17) Special conditions for safe use:

The installation of the switching contact is defined in the type examination certificate for the respective electrical equipment

(18) Essential health and safety requirements:

Met by standards.

Certification department of explosion protection

Türkheim, March 18, 2014



D. Zitzmann

Meister Strömungstechnik GmbH
Im Gewerbegebiet 2
63831 Wiesen
Germany

Declaration of Conformity

In accordance with EC-Directive 94/9/EC on equipment and protective systems intended for use in potentially explosive atmospheres (ATEX)

We declare under sole responsibility that the switch contacts listed below are in compliance with the requirements of EC-Directive 94/9/EC. The switch units are not stand-alone components and may only be used in conjunction with flow meters which have previously been approved by us (hereafter referred to as „device unit“). The device unit is intended for installation as part of a machine or system, whereby operation is prohibited until such time as it is ensured that the machine or system, in its entirety, is in compliance with the relevant EC-Directives.

Component: Switch contact SG-15EX*****
Manufacturer: Meister Strömungstechnik GmbH
Address: Im Gewerbegebiet 2, 63831 Wiesen

The essential safety and health requirements are met by compliance with:

EN 60079-0:2012

EN 60079-11:2012

EC Type Examination Certificate: EPS 13 ATEX 1 596 V
Prepared by Bureau Veritas Consumer Products Services Germany GmbH

Place and date

Wiesen, July 8, 2014

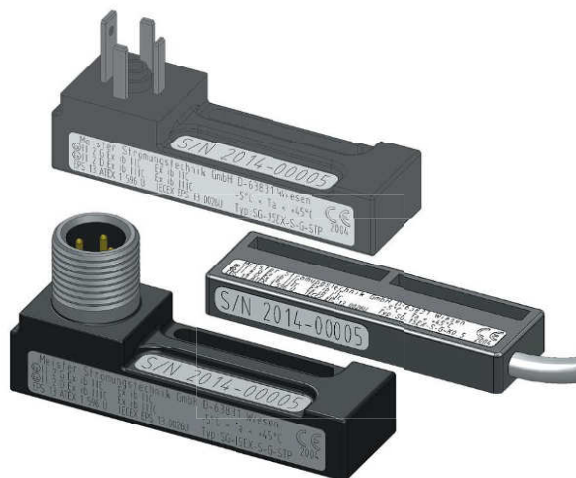
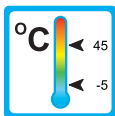
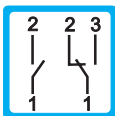
Name and signature of authorized person



Rosemarie Mill
Managing Director

Switch contact

SG-15EX



Operation

Operation

- The switch contact is intended for use with mechanical flow meters which have been connected to certified intrinsically safe circuits and serves to electrically monitor flow limits.

Application

- Monitoring of flow limits in explosion hazard zones.

Features

- ATEX compliant
- For use in Zone 1, 2, 21 and 22

Installation information

- The operating instructions for the flow monitors must be observed!
- Download: www.meister-flow.com

Possible applications / combinations

Medium



Device

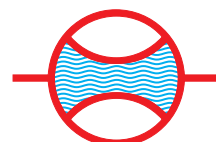
RVM/U-2
RVM/UA-2
RVM/U-4
RMU-A
RMU-B
RVO/U-2
RVO/U-4



DKG-2
DKM-2
DKM/A-2



RVM/U-L2
RVM/U-L4
RVO/U-L2
RVO/U-L4

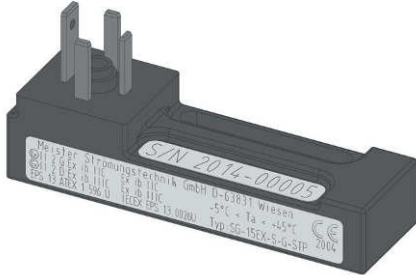


Technical data

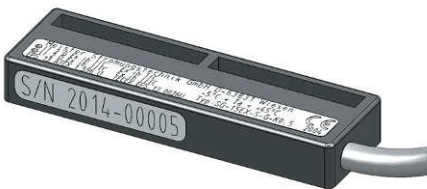
Electrical connection

Switch contact SG-15EX

Connector DIN 43650



Cable



Plug connector M12



Electrical Data

Connection to certified intrinsically safe circuits

Li = 0

Ci = 0

gas			dust		
Ui	Ii	Pi	Ui	Ii	Pi
< 12,1 V	1,0 A	3,0 W	< 12,1 V	0,25 A	0,75 W
< 20 V	0,309 A	1,55 W	< 20 V	0,25 A	0,75 W
< 25 V	0,158 A	0,99 W	< 25 V	0,75 A	0,75 W
< 30 V	0,101 A	0,76 W	< 30 V	0,75 A	0,75 W

Ingress Protection

IP65: plug connection DIN 43650 Form C or plug M 12x1

IP67: 1 m sealed in cable

Output signal

The contact opens / changes when the flow falls below the set point

Power supply

Not required (potential free reed contacts)

Marking



II 2 G Ex ib IIC

II 2 D Ex ib IIIC

Operating temperature

-5 °C < T_{Service} < 45 °C

EC-Type examination

EPS 13 ATEX 1 596 U

Connection diagrams

Connector DN 43650

Normally Open Contact (NOC)



Change Over Contact (COC)

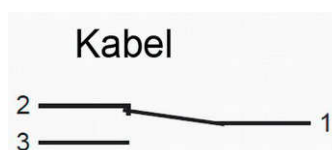


Cable

Normally Open Contact (NOC)

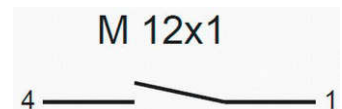


Change Over Contact (COC)



Plug connector M12x1

Normally Open Contact (NOC)



Change Over Contact (COC)

