Translation

EU-Type Examination Certificate

- 2 Directive 2014/34/EU of the European Parliament and of the Council of 26 February 2014
- 3 EU-Type Examination Certificate Number: **BVS 08 ATEX E 157** Issue: **01**
- 4 Equipment: Belt Alignment Switch type / Position switch

Type EX-* 250-**-H-*-*

Belt alignment switch / Slack wire switch / Position switch

Type EX-* 441-11*-UE-*-*-*

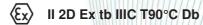
- 5 Manufacturer: K.A. Schmersal GmbH & Co. KG
- 6 Address: Möddinghofe 30, 42234 Wuppertal, Germany
- 7 This product and any acceptable variations thereto are specified in the appendix to this certificate and the documents referred to therein.
- DEKRA Testing and Certification GmbH, Notified Body number 0158, in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in the confidential Report No / BVS PP 08.2193 EU/N5. This issue of the EU-Type Examination Certificate replaces the previous issue of the EC-Type Examination Certificate BVS 08 ATEX E 157 including supplements 1/to 2.

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

EN IEC 60079-0:2018 General requirements Protection by Enclosure "t"

- If the sign "X" is placed after the certificate number, it indicates that the product is subject to the "Specific Conditions of Use" listed under item 17/of this certificate.
- This EU-Type Examination Certificate relates only to the technical design of the specified product in accordance to the Directive 2014/34/EU. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.
- 12 The marking of the product shall include the following:



DEKRA Testing and Certification GmbH Bochum, 2023-05-22

Signed: Dr. Rolf Krökel

Managing Director



Page 1 of 4 of BVS 08 ATEX E 157 Issue 01 – Johnumber A 20210689 / 342365500 This certificate may only be reproduced in its entirety and without any change.

- 13 Appendix
- 14 EU-Type Examination Certificate

BVS 08 ATEX E 157 issue 01

- 15 **Product description**
- 15.1 Subject and type

Belt alignment and position switch EX-* 250-**-H-*-*-

EX-[1] 250-[2][3]-H-[4]-[5]-[6]

[1] Contact system

M. Snap actionT. Slow action

[2] Contact Versions

11 1 NO contacts / 1 NC contacts
22 2 NO contacts / 2 NC contacts

[3] Protection class

Z IP67 Y IP66

[4] Actuator

L* Roller level ۷* Roller level C* Fork Level Α* Roller level Z^* Pull level 4D* Angle roller lever 2A* Roller level Roller level D* 2Z* Pull level

4D-RMS* // Angle roller lever, brass roller
V-RMS* // Roller level, brass roller
243 // Belt alignment switch
966 // Belt alignment switch
1224 // Belt alignment switch

*Position switch only

[5] Contact material

1276-1 Gold-plated, 5μm/ 1276-2 Gold-plated, 0,3μm

1276-3 Pointed contact Gold-plated, 5μm/
1276-4 Pointed contact Gold-plated, 0,3μm

[6] Special versions

(Blank) Without special function

2825-1 Toothed shaft 2825-2 Toothed shaft



Belt alignment- or Slack wire switch, position switch EX-* 441-11*-UE-*-*-

EX-[1] 441-11[2]-UE-[3]-[4]-[5]

[1]	l Contact	system

M. Snap actionT. Slow action

[2] Protection class

Z IP67 Y IP66

[3] Actuator

4D* Angle roller lever
2A* Roller level

D* Roller level

2Z* Pull level

4D-RMS* Angle foller lever, brass roller
V-RMS* Roller level, brass roller
243 Belt alignment switch
966 Belt alignment switch
1224 Belt alignment switch
14 Slack rope switch

*Position switch only

[4] Contact material

[5] Special versions

(Blank) Without special function

1801 toothed shaft

15.2 **Description**

The belt alignment switch / position switch is actuated when the conveyor gets misaligned. The slack wire switch reacts when the sling tension is lost.

The devices consist of a metallic single-chamber housing in the protection type protection by enclosure "t" with a built-in switching insert. On the front side, varying to type and design, is the actuating part, which operates the switching insert within the enclosure. On the side of the housing, right and left are entries for cable glands. At the bottom of the enclosure is the equipotential bonding connection.



Reasons for this issue

- Change to Directive 2014/34/EU
- Updating of the standards

EN 60079-0:2012 to EN IEC 60079-0:2018 EN 60079-31:2009 to EN 60079-31:2014

- Additional information label on the enclosure and in the instructions
- Updating the Type codes
- Changing the size of equipotential bonding conductor connection
- 15.3 **Parameters**
- 15.3.1 Electrical data

Voltage AC 400 V Current 4 A

15.3.2 Thermal data

Maximum surface temperature T +90°C

Permitted ambient temperature -20°C to +60°C

15.3.3 Type of protection according to EN 60529

IP66, the types marked with "z" meet IP67 as well

16 Report Number

BVS PP 08.2193 EU, as of 2023-05-22

17 Specific Conditions of Use

None

18 Essential Health and Safety Requirements

Met by compliance with the requirements mentioned in item 9.

19 Remarks and additional information

Drawings and documents are listed in the confidential report.

We confirm the correctness of the translation from the German original.

In the case of arbitration only the German wording shall be valid and binding.

DEKRA Testing and Certification GmbH Bochum, 2023-05-22 BVS-DDo/MGR A 20210689

Managing Director

