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

Certificate No.:	**IECEx BVS 09.0004**	Page 1 of 4	Certificate history:
Status:	**Current**	Issue No: 2	Issue 1 (2013-03-07) Issue 0 (2009-01-16)
Date of Issue:	2023-05-31		

Applicant: **K.A. Schmersal GmbH & Co. KG**
Moeddinghofe 30
42234 Wuppertal
Germany

Equipment: **Belt alignment switch, slack wire switch, position switch, type EX-* 441-11*-UE-*-*-* and type EX-* 250-**-H-*-*-***

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: **Senior Lead Auditor, Certification Manager and officially recognised expert**

Signature:
(for printed version)

Date:
(for printed version) 2023-05-31

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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 or use of this QR Code.

Certificate issued by:

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

IECEx Certificate of Conformity

Certificate No.: **IECEx BVS 09.0004**

Date of issue: 2023-05-31 Issue No: 2

Manufacturer: **K.A. Schmersal GmbH & Co. KG**
Möddinghofe 30
42279 Wuppertal
Germany

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/ExTR09.0006/03

Quality Assessment Report:

DE/TUR/QAR11.0008/05

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EQUIPMENT:
Equipment and systems covered by this Certificate are as follows:

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.

Subject and Type

See Annex

Parameters

See Annex

SPECIFIC CONDITIONS OF USE: NO

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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

- Updating of the standards IEC 60079-0:2011 to IEC 60079-0:2017 and IEC 60079-31:2008 to IEC 60079-31:2013
- Additional information label on the enclosure and in the instructions
- Updating the type codes
- Changing the size of equipotential bonding conductor connection

Annex:

BVS_09.0004_KaSchmersal_Annex2.pdf

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Certificate No.: **IECEx BVS 09.0004 Issue No. 2**
Annex

Subject and Type:

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

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

[1]	Contact system	
	M.	Snap action
	T.	Slow action
[2]	Protection class	
	Z	IP67
	Y	IP66
[3]	Actuator	
	L*	Roller level
	V*	Roller level
	C*	Fork Level
	A*	Roller level
	Z*	Pull level
	4D*	Angle roller lever
	2A*	Roller level
	D*	Roller level
	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
	14	Slack rope switch
	* Position switch only	
[4]	Contact material	
	1276-1	Gold-plated, 5µm
	1276-2	Gold-plated, 0,3µm
	1276-3	Gold-plated, 5µm
	1276-4	Gold-plated, 0,3µm
[5]	Special versions	
	(Blank)	Without special function
	1801	toothed shaft

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

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

[1]	Contact system	
	M.	Snap action
	T.	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
	V*	Roller level
	C*	Fork Level
	A*	Roller level
	Z*	Pull level
	4D*	Angle roller lever
	2A*	Roller level
	D*	Roller level
	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

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Certificate No.: **IECEx BVS 09.0004 Issue No. 3**
Annex

Parameters

Type EX-* 441-11*-UE-*-*-*
Type EX-* 250-**-H-*-*-*

Voltage	AC	400 V
Current		4 A

Thermal data

Maximum surface temperature T	+90°C
Permitted ambient temperature	-20°C to +60°C

Type of protection according to IEC 60529
IP66, the types marked with “z” meet IP67 as well.