



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

Ex COMPONENT CERTIFICATE

Certificate No.: **IECEX TUR 22.0031U** Page 1 of 3 [Certificate history:](#)

Status: **Current** Issue No: 0

Date of Issue: 2025-04-16

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

Ex Component: Contact elements and indicator lights (electrical parts). Type: EX-RF03, EX-RF10 and EX-RLDEWS24

This component is NOT intended to be used alone and requires additional consideration when incorporated into other equipment or systems for use in explosive atmospheres (refer to IEC 60079-0).

Type of Protection: **"i"**

Marking: Ex ib IIC Gb

Approved for issue on behalf of the IECEx
Certification Body:

Christian Mehrhoff

Position:

Assigned certifier

Signature:
(for printed version)



Date:
(for printed version)

2025-04-16

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 or use of this QR Code.



Certificate issued by:

TUV Rheinland Industrie Service GmbH
Am Grauen Stein
51105 Cologne
Germany





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

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

ACE Schmersal Eletroeletronica Industrial Ltda.
Av. Brasil, 815 – Parque Residencial
Esplanada
Boituva, SP 18557-646
Brazil

K.A. Schmersal GmbH & Co. KG
Im Ostpark 2
35435 Wettenberg
Germany

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 component 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 60079-11:2011](#) Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
Edition:6.0

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 component listed has successfully met the examination and test requirements as recorded in:

Test Report:

[DE/TUR/ExTR22.0031/00](#)

Quality Assessment Reports:

[BR/ULBR/QAR17.0004/07](#)

[DE/TUR/QAR11.0008/06](#)



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Ex Component(s) covered by this certificate is described below:

Contact elements and indicator lights (electrical parts). Type: EX-RF03, EX-RF10 and EX-RLDEWS24
Details see attachment to certificate

SCHEDULE OF LIMITATIONS:

- The contact elements and indicator lights must only be used with an appropriate housing or panel (material: stainless steel or metal with painted surface). These housings must comply with the requirements of IP 65 or higher acc. to IEC 60529 and the tests acc. to IEC 60079-0, para. 4.
- The presence of small dust particles must be excluded inside the dust-tight IP 65 housing.

Annex:

[IECEX_TUR_22.0031U_00_Attachment_rev01.pdf](#)



Attachment to Certificate
IECEX TUR 22.0031U
Revision 0

Attachment to Certificate IECEX TUR 22.0031U

Device: Contact elements and indicator lights (electrical parts).
Type: EX-RF03, EX-RF10 and EX-RLDEWS24

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

General product information:

Contact elements type EX-RF03 and EX-RF10 and indicator lights type EX-RLDEWS24.

The contact elements and indicator lights comply with the type of protection “Ex ib” and are designed for the installation inside of appropriate enclosures or housings, which can be located in areas with a potentially explosive gas or dust atmosphere of zones 1, 2 and 21, 22.

The contact elements and indicator lights for use in potentially explosive atmospheres must only be used in appropriate housings or panels (material: stainless steel or metal with painted surface). These housings must comply with the requirements of IP 65 or higher acc. to IEC 60529 and meet the tests of enclosures acc. to IEC 60079-0.



Technical data

IS electrical data:

**Type of protection "ib IIC"
and "ib IIIC"**

For connecting each element only with one intrinsically safe circuit

U _i	Contact element EX-RF03 and EX-RF10 Light terminal block EX-RLDEWS24	250 V 30 V
I _i	Contact element EX-RF03 and EX-RF10 Light terminal block EX-RLDEWS24	3.3 A with Ex ib Not relevant (internal current limit 30 mA)
P _i	Contact element EX-RF03 and EX-RF10 Light terminal block EX-RLDEWS24	Not relevant
C _i		Negligible
L _i		Negligible

Environmental data of contact / light terminal block

Service temperature limits		- 25 °C ...+63 °C
Number of elements	Contact element Light terminal block	2 max. (position 2 and 3) 1 max. (position 1)

Additional Ex-related technical data of contact elements and light terminal block

Terminal cross-section	Single strand Finely-stranded ferrules with protective shroud	2 × (0.5 ... 2.5 mm ²) 2 × (0.5 ... 1.5 mm ²)
Torque of connecting screw		1 Nm max.