

# (1) EU-TYPE EXAMINATION CERTIFICATE



(2) Components intended for use in Potentially Explosive Atmosphere  
**Directive 2014/34/EU**

(3) EU-Type Examination Certificate Number:

**TÜV 22 ATEX 8490 U**

Issue: 00

(4) Component: **Control devices and indicator lights (mechanical parts) type EX-Rxxxxxxxxx**

(5) Manufacturer: **K.A. Schmersal GmbH & Co. KG**

(6) Address: **Möddinghofe 30  
42279 Wuppertal  
Germany**

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

(8) The Zertifizierungsstelle für Explosionsschutz of TÜV Rheinland Industrie Service GmbH, Notified Body No. 0035 in accordance with Article 21 of the Council Directive 2014/34/EU of 26th February 2014, certifies this product which has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of components intended for use in potentially explosive atmosphere, given in Annex II to the Directive.

The examination and test results are recorded in the confidential report 557 / Ex8490.00 / 22.

(9) Compliance with the Essential Health and Safety Requirements, with the exception of those listed in the schedule of this certificate, has been assessed by reference to:

**EN IEC 60079-0: 2018**

**EN 60079-7:2015**

**EN IEC 60079-7:2015/A1:2018**

**EN 60079-31: 2014**

(10) The sign "U" placed after the certificate number indicates that it is a component with respectively schedule of limitations in the annex to this certificate.

(11) This EU-Type Examination Certificate relates only to the design and specification for construction of the component. It does not cover the process for actual manufacture or supply of the component, for which further requirements of the directive are applicable.

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



**II 2G  
II 2D**

**Ex eb IIC Gb  
Ex tb IIC Db**

Cologne, 2025-06-02

TÜV Rheinland Zertifizierungsstelle für Explosionsschutz



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Extracts or alterations are subject to approval by Zertifizierungsstelle für Explosionsschutz of TÜV Rheinland Industrie Service GmbH.  
Am Grauen Stein • 51105 Köln • Tel. +49 (0) 221 806-0 • Fax. + 49 (0) 221 806 114

(13)

(14)

Annex to

# EU-Type Examination Certificate

## TÜV 22 ATEX 8490 U

Issue: 00

### (15) Description of Component

#### Component and type:

Control devices and indicator lights (mechanical parts) type EX-Rxxxxxxx

#### General product information:

This test report describes the testing of the mechanical parts of the control devices and indicator lights which will be part of enclosures or panels and will be completed by electrical contacts and / or indicator lights mounted in the inner of appropriated enclosures.

The control devices and indicator lights are used in areas with a potentially explosive gas or dust atmosphere of zones 1, 2 or 21, 22 for installation in appropriate housings. They comply with the types of protection "eb" and "tb".

The control devices and indicator lights for use in potentially explosive gas atmospheres may only be used in an 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 acc. to EN 60079-0, para. 26.4.

#### Type code:

##### Designation

Marking plate

Blanking plug

Pushbutton

Pushbutton with membrane

Indicator light

Illuminated pushbutton

Illuminated pushbutton with membrane

Emergency stop switch with latching

function (also in combination with

emergency stop sign type NDP-65)

Mushroom button (without latching function)

Key-operated selector switch

Key-operated selector switch

Key-operated selector switch

Key-operated selector switch

Selector switch

Selector switch

Selector switch

Selector switch

##### Type

EX-RZSO

EX-RB

EX-RDT xx

EX-RDM xx

EX-RMLH xx

EX-RDL xx

EX-RDLM xx

EX-RDRZ45 xx

EX-RDP40 xx

EX-RSSyySzzz

EX-RSSTyySzzz

EX-RSTSyySzzz

EX-RSTyySzzz

EX-RWS yy.v

EX-RWST yy.v

EX-RWT yy.v

EX-RWTS yy.v

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**Technical data:****Ex-related technical data of control elements**

Ambient temperature $T_{amb}$	Blanking plug	– 25 °C ... + 55 °C
	Pushbutton	– 25 °C ... + 55 °C
	Illuminated pushbutton	– 25 °C ... + 55 °C
	Indicator light	– 20 °C ... + 55 °C
	Emergency stop switch with latching function	– 25 °C ... + 55 °C
	Mushroom pushbutton (w/wo latching function)	– 25 °C ... + 55 °C
	Key-operated selector switches (all types)	0 °C ... + 55 °C
	Selector switches (all types)	0 °C ... + 55 °C

**Ex-related technical data of control elements**

Protection type to IEC 60 529		IP 65
With enclosure tests acc. to IEC 60079-0		
Proven impact energy (IEC 60079-0 or IEC 6079-31)	Blanking plug	7J
	Pushbutton	7J
	Illuminated pushbutton	4J
	Indicator light	4J
	Emergency stop switch with latching function	4J
	Mushroom pushbutton (w/wo latching function)	4J
	Key-operated selector switches (all types)	4J
	Selector switches (all types)	4J
Fixation	With mounting flange max. torque	2 Nm
UV exposure	Ex-RDL	Protection against permanent UV exposure must be ensured by the user
	Ex-RDLM	

(16) Test report No.:

**557 / Ex8490.00 / 22**

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### (17) Respectively Schedule of Limitations

1. The user must ensure protection against permanent UV exposure and max. impact energy when using certain controls.
2. The control devices and indicator lights for use in potentially explosive areas of zone 1 / 21 and 2 / 22 may only be used with an appropriate housing 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 the tests acc. to EN 60079-0 and IEC 60079-31.
3. The information in the manual or in the information on the specifications in this IECEx type-examination certificate on maximum proven impact energy must be observed.  
If certain controls are used, this equipment must be installed mechanically protected.
4. The above listed components as well as the cable/line lead-ins have different admissible ambient temperatures.  
The ambient temperature range of the particular assembly is derived from the range of the most critical single assemblies. Observe the operator's manual and / or the Ex-related technical data of control elements in General product information.

### (18) Essential Health and Safety Requirements

The Essential Health and Safety Requirements are covered by the standards listed at item 9.

TÜV Rheinland Zertifizierungsstelle für Explosionsschutz

Cologne, 2025-06-02



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