(1) # EU-TYPE EXAMINATION CERTIFICATE

(2) Equipment and Protective Systems intended for use in Potentially Explosive Atmosphere - **Directive 2014/34/EU**

(3) EU-Type Examination Certificate Number:

TÜV 24 ATEX 9153 X

Issue: 00

(4) Equipment: **Cordsets V1…-N…**

(5) Manufacturer: **Pepperl+Fuchs SE**

(6) Address: **Lilienthalstraße 200**
68307 Mannheim
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 equipment and protective systems 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 331 / Ex9153.00 / 24.

(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 IEC 60079-11: 2024**

(10) If the sign "X" is placed after the certificate number, it indicates that the equipment is subject to special conditions for safe use specified in the schedule to this certificate.

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

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

II 1G **Ex ia IIC T6 Ga**
II 1D **Ex ia IIIC T_{200}85°C Da**

Cologne, 2025-08-05

TÜV Rheinland Zertifizierungsstelle für Explosionsschutz

Digital unterschrieben von Christian Mehrhoff

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(13)

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Annex to

EU-Type Examination Certificate

TÜV 24 ATEX 9153 X

Issue: 00

(15) Description of Equipment

Equipment and type:

Cordsets V1…-N…

General product information:

The cordsets are used to connect devices. Cable of different length are provided with a M12 connector socket (female) or plug connector (male) on one side and on the other side a cable end or a M12 plug connector (male).
They are suitable to be used in hazardous areas of group II and III. The area classification of the cordsets depends on the level of protection of the intrinsically safe circuits the cordsets are connected to.
Cordsets with two poles may be used for one intrinsic safe circuit.
Cordsets with four poles may be used for up to two separated intrinsic safe circuits, except for group IIIC. For group IIIC separated intrinsic safe circuits are not permitted.
There are cordsets with unshielded cable and shielded cable. The shield connection is only on one side, at the cable end.

Type code:

Position:

I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII	XIII	XIV

Type code example:

V1	-	W	V4A	-	N		-	BU	8M	-	PUR	-	N	4	S0	-	V1	-	G	-	a…

Position	Topic	Indicator	Description
I	Connection type, head 1	V1	M12 connector, socket (female)
		V1S	M12 connector, plug (male)
II	Connection alignment, head 1	G	Straight
		W	Angled

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III	Material screw connection	V4A	Stainless steel
			Blank: no specification [1)]
IV	Area of application	N	Namur
V	Number of poles		Blank: 2 poles, connection of pins 1, 2 [1)]
		1	2 poles, connection of pins 1, 4
		4	4 poles
VI	Cable colour	BU	Blue
VII	Cable length	0,2M – 200M	Cable length (range), specified by number, “M” stands for unit of length meter
VIII	Cable sheath material	PUR	PUR
IX	Area of application	N	Namur
X	Wire Gauge	1	0,34 mm²
		4	0,50 mm²
XI	Shielding	S0	Shielded, without electrical connection to connector head
			Blank: not shielded [1)]
XII	Connection type, head 2	V1	M12 connector, plug (male)
			Blank: cable end (no second connection head) [1)]
XIII	Connection alignment, head 2	G	Straight
		W	Angled

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			Blank: cable end (no second connection head) [1]
XIV	Special design variants		Blank: no specification [1]
		a…	The "a…" will be replaced by any combination of letters or numbers which are related to specific design variants without safety relevance

[1] if blank: characters from the right will be moved left

Technical data:

Application as Group II equipment (EPL Ga)	U_i = 30 V (sum of voltages, when 2 different Ex-i circuits)	
	I_i = 0.1 A	I_i = 1 A
Maximum permissible ambient temperature:	80 °C	70 °C

Application as Group III equipment (EPL Da)	U_i = 30 V (sum of voltages, when 2 different Ex-i circuits)	
	I_i = 0.1 A	I_i = 1 A
Maximum permissible ambient temperature:	80 °C	60 °C

Additional points to consider:

- If two galvanically isolated circuits are connected: the maximum sum of both voltages is 30 V.
- The cordsets must not carry an earthed circuit if intrinsic safety depends on the earth connection.
- Inner reactances depend on the cable length only. Values can be determined on the basis of the standard IEC 60079-14.
- For Group IIIC, Cordsets with four poles: Separated Ex-i circuits are not permitted.
- Appropriate measures need to be taken to protect the types V1-G…-N… and V1-W…-N… against mechanical damage due to impact if they are used within an ambient temperature range between – 25 °C and – 20 °C. An ambient temperature below – 25°C is not permissible.

(16) **Test report No.:** **331 / Ex9153.00 / 24**

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(17) Special Conditions for safe use

1. The maximum ambient temperatures can be seen under “Technical Data”.

2. Avoid inadmissibly high electrostatic charge of the metal housing components. Dangerous electrostatic charge of parts of the metal housing can be avoided by grounding these parts.

3. For use in Group IIC, for EPL Ga: Avoid electrostatic charges of non-metallic enclosure parts which could result in electrostatic discharges while installing or operating.

(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, 2025-08-05

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