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The Type 9415/00-310-4* Diagnosis Communication Module (DCM) is an Explosion protected device for installation in Non-Hazardous, Class I, II, III Division 2 or Class 1, Zone 2 or Class II, III, Zone 21 Hazardous (Classified) Locations.

The Type 9415/00-310-4* Diagnosis Communication Module is to be used in conjunction with the bus-Carrier type 9419/***-**f-**** and the Fieldbus Power Supply type 9412/0*-3*0-1*.

Diagnosis Communication Module Type 9415/00-310-4g

g = numeral 0 or 2 for service interface

0 = without

1 = RS232 interface

Nominal values are as follows:

| Type | Connector | V _{nom} | U _{max} | I _{nom} at 18 V | I _{nom} at 24 V | I _{nom} at 32 V |
|----------------|----------------------------------|----------------------------|------------------|--------------------------|--------------------------|--------------------------|
| 9415/00-310-4* | X1: Supply via bus-Carrier | 24 V DC (18 to 32 V DC) | 32 V DC | 50 mA | 40 mA | 30 mA |
| | X1: Diagnosis signal | 5 V DC | 32 V DC | - | | |
| 9415/00-310-42 | X2 (pin 2, 3, 5) | ± 15 V DC | 32 V DC | ± 12 mA | | |

The FF-H1 fieldbus connection is a passive, galvanically separated input circuit for connection of intrinsically safe circuits or circuits with voltage limitation as per type of protection Ex ic.

The fieldbus connection is galvanically isolated from the non-intrinsically safe circuits (power supply and diagnostic signals) and from the interface for firmware download.

| Type | Terminal | V _{max} (U _i) | L _i [V] | C _i [mA] |
|----------------|--------------------------------------|------------------------------------|--------------------|---------------------|
| 9415/00-310-4* | 4 (Trunk +), 5 (Trunk -), 6 (Shield) | 32.0 V DC | 0.010 mH | 0 nF |

Notes:

- For Installation requirements and Connections refer to Operating Instructions.
- Installation should be in accordance with Article 504/505 of the National Electrical Code, ANSI/NFPA 70 and ANSI/ISA RP 12.06.01
- Installation in Canada should be in accordance with the Canadian Electrical Code, CSA C22.1, Part 1, Appendix F.
- Do not connect circuits which use > 32 V (U_{max}) to the non I.S. side circuits of the DCM via the bus Carrier's power supply.
- Do not disconnect Non-I.S. field wiring (X1 or X2) unless area is known to be non hazardous.
- Do not disconnect FF-H1 fieldbus connection if supplied from a source with voltage limited output per Ex ic (e.g. R. STAHL Type 9412/0*-3*0-1*) unless area is known to be non hazardous.
- Ambient temperature: -20°C ... +70°C;
- Use a general purpose enclosure meeting the requirements of ANSI/ISA S82.02.01 for use in non-hazardous or Class I, Division 2, Hazardous (Classified) Locations.
- Use an FM Approved Dust-ignition proof enclosure appropriate for environmental protection in Class II, Division 1, Groups E, F and G; and Class III, Hazardous (Classified) Locations.
- The DCM Type 9415/00-310-4* is to be snapped mounted onto bus-Carrier type 9419 or a DIN rail.

WARNING:

Substitution of components may impair Intrinsic Safety.

Do not disconnect equipment when a flammable or combustable atmosphere is present.


AVERTISSEMENT:

Substitution de composants peut compromettre la sécurité intrinsèque.

Ne pas débrancher l'équipement en présence d'atmosphère inflammable ou combustible.

The safety relevant statements of this document may be transferred into the operating instructions.

Transferring the text, editorial changes of equivalent meaning are allowed.

| Version | Date | Name | Certification drawing | | Scale | |
|---------|----------|--------|---|--|------------------|-----------------|
| | 2011 | Date | Name | IS bus - Diagnosis Communication Module Type 9415/00-310-4* | none | |
| | drawn | 04.10. | Reistle | | 9415 6 031 001 1 | Sheet 1 of 1 |
| | checked | | Kaiser | | | Agency FM |
| 01 | 19.02.13 | Bader |  | | A4 | |
| | | | Ers. f. | Ers. d. | | |

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