



STAHL 9419/08R-YO1-02A5 8SEG Isbus Fieldbus Technology Yokogawa Bus Carrier Installation Guide

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9419/08R-YO1-02A5 Art. No. 221456

- Time- and cost- saving installation on DIN rails or mounting plates
- High availability thanks to redundant auxiliary power supply with signalling contact and separate signalling contact for segment errors
- Special slot for 9415 series DCM for online transmission of physical layer diagnostics

WebCode 9419B

9419 series bus- Carriers allow 9412 series fieldbus power supplies for FF H1 segments to be in-stalled quickly and securely. Variants are available for eight segments with simplex supply and for four or eight segments with redundant supply. Connectors are integrated in this version to connect the AKB336 system cable for Yokogawa ALF111 host assemblies.

Technical Data

Explosion Protection	
Application range (zones)	2
IECEX gas certificate	IECEX BVS 09.0042X
IECEX gas explosion protection	Ex nA nC IIC T4 Gc
ATEX gas certificate	BVS 09 ATEX E 100 X
ATEX gas explosion protection	E II 3 G Ex nA nC IIC T4 Gc
FMus certificate	3026646
cFM certificate	3026646C
Marking cFMus	Nonincendive for, Class I, Div. 2, Groups A,B,C,D; T4, at Ta = 70 °C Class I , Zone 1, AEx/Ex nA nC IIC T4 , at Ta = 70 °C 9419 6 031 001 1
EAC certificate	TS RU S-DE.ME92.B.01076
EAC gas explosion protection	7 2 Ex nA nC IIC T4 Gc X
Certificates	ATEX (BVS), Brazil (ULB), Canada (FM), EAC (ENDCE), IECEX (BVS), India (PESO), USA (FM)
Electrical Data	
Version	Yokogawa bus-Carrier
Connection electrical data	To Yokogawa ALF111 FF H1 hosts
Trunk supply	Redundant
Number of segments	8
Number of slots	16 FPS + 1 DCM
Error detection Power Fail (pri / red)	Contact "PF" (35 V/100 mA) closed in go-state
Error detection Diagnostic	Contact "Dia" (35 V/100 mA) closed in go-state
Auxiliary Power	
Nominal voltage	24 V DC
Auxiliary power voltage range	19 to 32 V DC
Voltage range residual ripple	≤ 3,6 Vss

Network Technology

ISbus fieldbus technology Yokogawa bus-Carrier For Zone 2

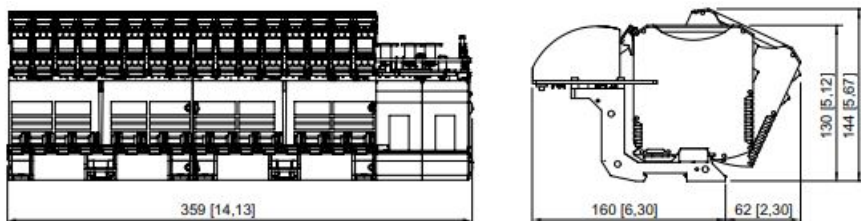
Auxiliary Power	
Current consumption	Depending on support equipment
Redundant supply	Yes, diode-decoupled
Polarity reversal protection	Yes
Power dissipation	Depending on the carrier equipment
Device Specific Data	
Auxiliary power operating condition LED	“pri” LED, green “red” LED, green
DIP switch diagnostics	Diagnostics activated Diagnostics deactivated
DIP switch redundancy	Redundant auxiliary power monitoring activated Redundant auxiliary power monitoring deactivated
Ambient Conditions	
Ambient temperature	-20 °C ... +70 °C
Ambient temperature	-4 °F ... +158 °F
Storage temperature	-40 °C ... +80 °C
Storage temperature	-40 °F ... +176 °F
Maximum relative humidity	95% (without condensation)
Max. operating altitude	< 2000 m
Max. operating altitude, ft	< 6562 ft
Electromagnetic compatibility	Tested to the following standards and regulations: EN 61326 (IEC/EN 61000-4-1 to 61000-4-6 and 61000-4-11), NAMUR NE21
Note	For further information, see the 9412 type operating instructions
Mechanical Data	
Connection type auxiliary power	2-pole (+, -) on bus-Carrier (pri/red)
Connection type error message contacts	2-pole (+, -) on bus-Carrier (PF/Dia)
Connection type Trunk	3-pole (+, -) on bus-Carrier 3-pole (+, -, shield) on 9412 series fieldbus power supply

Connection type Host / red. Host	System connector for Yokogawa AKB336 system cable
Connection type diagnostics	26-pole ribbon cable on 9415 series diagnostics communication module
Connection type cable shields	Shield terminal on the bus-Carrier Shield bus with clamping bracket
Cable shields note	For the fieldbus carrier, the clamping brackets must be ordered separately.
Connection earthing	Via earth connection terminal
Rigid single-wire connection	Trunk 0.2 to 2.5 mm ² Host 0.2 to 2.5 mm ² Auxiliary power 0.2 to 2.5 mm ² Fault message contact 0.2 to 2.5 mm ² Earthing 0.2 to 2.5 mm ²
Flexible single-wire connection	Trunk 0.2 to 2.5 mm ² Host 0.2 to 2.5 mm ² Auxiliary power 0.2 to 2.5 mm ² Fault message contact 0.2 to 2.5 mm ² Earthing 0.2 to 2.5 mm ²
Flexible single-wire connection with sleeve	Trunk 0.25 to 2.5 mm ² Host 0.25 to 2.5 mm ² Auxiliary power 0.25 to 2.5 mm ² Fault message contact 0.25 to 2.5 mm ² Earthing 0.25 to 2.5 mm ²

Mechanical Data	
Two-core connection, flexible	Trunk 0.2 to 1.5 mm ² Host 0.2 to 1.5 mm ² Auxiliary power 0.2 to 1.5 mm ² Fault message contact 0.2 to 1.5 mm ² Earthing 0.2 to 1.5 mm ²

Two-core connection, rigid	Trunk 0.2 to 1 mm ² Host 0.2 to 1 mm ² Auxiliary power 0.2 to 1 mm ² Fault message contact 0.2 to 1 mm ² Earthing 0.2 to 1 mm ²
Two-core connection, flexible with sleeve	Trunk 0.25 to 1 mm ² Host 0.25 to 1 mm ² Auxiliary power 0.25 to 1 mm ² Fault message contact 0.25 to 1 mm ² Earthing 0.25 to 1 mm ²
IP degree of protection (IEC 60529)	IP00 IP20 terminals
Module enclosure	PA 6.6
Fire resistance (UL 94)	V0
Pollutant class	Corresponds to G3
Width	358 mm
Width, inches	14.09 in
Length	160 mm
Length, inches	6.3 in
Depth of cut-out	129 mm
Mounting depth, inches	5.08 in
Weight	1.2 kg
Weight	2.65 lb
Mounting / Installation	
Mounting type	on NS 35/15 DIN rail (DIN EN 60715) On mounting plate (4 x M5 screw)
Tightening torque	2.6 Nm
Mounting orientation note	For further information, see the 9412 type operating instructions
Mounting orientation	Horizontal Vertical

Dimensional Drawings (All Dimensions in mm [inches]) – Subject to Alterations



9419/08R bus-Carrier for 16 fieldbus segments

Accessories

Diagnostics communication module 9415

	Transmission of diagnostic data for up to eight segments via FF H1	207903
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Fieldbus power supply

	Fieldbus supply, diagnostics and adjustable warning level	200588
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Spring clamp clip

	Spring clamp clip KLBÜ C01	113509
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We reserve the right to make alterations to the technical data, dimensions, weights, designs and products available without notice. The illustrations cannot be considered binding.

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Documents / Resources



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References

- [STAHL R. STAHL | Explosion Hazard Systems | Industrial Explosion Protection](#)
- [STAHL You will find a little bit of Stahl chemistry everywhere](#)