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HART analogue universal module for Zone 1/Div. 1

Series 9468/32





- 8 channels can be used individually as inputs or outputs
- Intrinsically safe Ex ia IIC inputs/outputs with line fault monitoring and an LED fault and status display for each channel
- Module in Zone 1 can be replaced without having to disconnect the power supply (i.e. hot-swapped)

MY R. STAHL 9468A





The 9468/32 HART analogue universal module for Zone 1 has eight channels which can be used separately for Ex i operation of 2-/3-conductor HART transmitters, 4-conductor transmitters or control valves/positioners with 0/4 to 20 mA signals. HART communication is bidirectional.

All inputs/outputs are short-circuit proof, galvanically separated from the system and individually monitored to check for line faults.

	IECEx / ATEX					
Zone	0	1	2	20	21	22
Ex interface	•	•	•	•	•	•
Installation in		•	•			

	NEC® 500 CE Code Appendix J Class I Class II Class III					
Division	1	2	1	2	1	2
Ex interface	•	•	•	•	•	•
Installation in	•	•				

	CE Code Secti NEC® 505 Class I					
Zone	0	1	2	20	21	22
Ex interface	•	•	•			
Installation in		•	•			

Selection Table				
Installation	Zone 1, Zone 2 and safe areas			
Number of channels	Channel status LEDs	Product Type	Art. No.	Weight
8 Ex i inputs/outputs	No	9468/32-08-10	296070	275 g
	Yes	9468/32-08-11	210659	275 g

Please order terminals separately – see accessories and spare parts.

Technical Data		
Variant	9468/32-08-10	9468/32-08-11
Explosion Protection		
IECEx gas explosion protection	Ex ia [ia Ga] IIC T4 Gb	Ex ia [ia Ga] IIC T4 Gb
IECEx dust explosion protection	[Ex ia Da] IIIC	[Ex ia Da] IIIC
ATEX gas explosion protection	⑤ II 2 (1) G Ex ia [ia Ga] IIC T4 Gb	
ATEX dust explosion protection		
Certificates	ATEX (DEK), Brazil (ULB), Canada (FM), China (NEPSI), IECEX (DEK), India (PESO), USA (FM)	ATEX (DEK), Brazil (ULB), Canada (FM), China (NEPSI), IECEx (DEK), India (PESO), Korea (KTL), USA (FM)
Ship approval	ABS, BVIS, EU RO MR (DNV), KR, LR	ABS, BVIS, EU RO MR (DNV), KR, LR
Declaration of Conformity	ATEX (EUK), China (CCC)	ATEX (EUK), China (CCC)
Safety Data		
Max. voltage U _o	24.4 V	24.4 V
Max. current I _o (2-conductor)	80 mA	80 mA
Max. current I₀ (3-conductor)	81.8 mA	81.8 mA

1



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A4

9468/32-08-10	9468/32-08-11
488 mW	488 mW
499 mW	499 mW
8 Ex i inputs/outputs	8 Ex i inputs/outputs
Each can be configured as input or output (3-conductor, 4-conductor transmitters or active mA sources occupy 2 channels)	Each can be configured as input or output (3-conductor, 4-conductor transmitters or active mA sources occupy 2 channels)
0 to 20 mA 4 to 20 mA	4 to 20 mA 0 to 20 mA
16 V	16 V, at 20 mA for 2-conductor transmitters
HART protocol	HART protocol
Pluggable, blue terminals, 16-pin, 2.5 mm², screw type or cage clamp version with lock	Pluggable, blue terminals, 16-pin, 2.5 mm², screw type or cag clamp version with lock
In order to operate an active 4-conductor HART transmitter, a 9164 must be connected between each channel. A 9164 is not required when operating a 4-conductor transmitter without HART communication.	In order to operate an active 4-conductor HART transmitter, a 9164 must be connected between each channel. A 9164 is no required when operating a 4-conductor transmitter without HA communication.
220 mA (at 20 mA per channel)	220 mA (at 20 mA per channel)
5.3 W	5.3 W (at 20 mA/channel)
3.7 W	3.7 W (at 20 mA. 500 Ω/channel)
2.7 W	2.7 W (at 20 mA/channel)
14.1 Ω per channel	14.1 Ω per channel
$700~\Omega$ at 21.8 mA $750~\text{ohm}$ at 20 mA	750 ohm at 20 mA 700 Ω at 21.8 mA
40 ms	40 ms
-40 °C +75 °C Observe operating instructions	-40 °C +75 °C Observe operating instructions
	8 Ex i inputs/outputs Each can be configured as input or output (3-conductor, 4-conductor transmitters or active mA sources occupy 2 channels) 0 to 20 mA 4 to 20 mA 16 V HART protocol Pluggable, blue terminals, 16-pin, 2.5 mm², screw type or cage clamp version with lock In order to operate an active 4-conductor HART transmitter, a 9164 must be connected between each channel. A 9164 is not required when operating a 4-conductor transmitter without HART communication. 220 mA (at 20 mA per channel) 5.3 W 3.7 W 2.7 W 14.1 Ω per channel 700 Ω at 21.8 mA 750 ohm at 20 mA 40 ms

Accessories			
Figure	Description	Art. No.	Weight
Pluggable terminal			
	2.5 mm² with lock, 16-pin, screw connector, blue, for connecting the field signals to I/O modules, for intrinsically safe field circuits Labelling: 1 to 16 Note: A second terminal is additionally required for I/O module Series 9470 and 9482 Labelling: 17 to 32	162702	28 g
	2.5 mm² with lock, 16-pin, spring clamp connection, blue, for connecting the field signals to I/O modules, for intrinsically safe field circuits, incl. test jacks Labelling: 1 to 16 Note: A second terminal is additionally required for I/O module Series 9470 and 9482 Labelling: 17 to 32	162695	28 g
Electronic relay			
9	The 9174 electronic relay module makes it possible to switch Ex e loads using an intrinsically safe control system. Input: Ex i; output: 31.2 V/2 A DC, Ex e	212340	110 g

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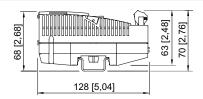
Accessories			
Figure	Description	Art. No.	Weight
mA isolating repeater			
	The mA isolating repeaters are used to connect 4-wire transmitters to active 2-wire inputs and for galvanic separation. Input: Sink, Ex e Output: Sink, Ex i	224365	140 g
El many Liver D	The mA isolating repeaters are used to connect 4-wire transmitters to active 2-wire inputs and for galvanic separation. Input: Sink, Ex i Output: Sink, Ex i	224364	90 g
Resistor error message	suppression		
-	The resistors are used to suppress error messages for unused I/O channels Resistance value: 5K6/0.5 W Suitable for: AIM 9468; UMH 9469; DIOM 9470; DIOM 9471; DIOM 9472; DOM 9475 For intrinsically safe circuits (simple apparatus according to EN 60079-11)	244911	-
	The resistors are used to suppress error messages for unused I/O channels Resistance value: 62R/0.5 W Suitable for: AOM 9468; UMH 9469; DIOM 9472; TIM 9482	244912	-
Partition			
	For mounting between intrinsically safe and non-intrinsically safe connections between I/O modules to maintain a tight string length of 50 mm	220101	10 g
Warning label			
A	"Clean modules only with a damp cloth."	162796	1 g
DIN A4 sheet			
	For label plate on I/O modules; 6 plates per sheet; IS Wizard printout; packaging unit = 20 sheets	162832	1 g
Labelling strips			
Mad No.	"FB Addr Mod No" for pluggable terminal, 26 pieces on the sheet	162788	1 g
Vibration bracket set			
1	When installed in environments with extreme vibration (> 0.7 g and max. 4 g), the 9490 vibration brackets may be used as an additional measure and provide mechanical stability for the individual modules. For mounting: All I/O modules, except 9477/12 and 9478 Number of brackets in a set: 8 Screws (item no. 275516) must be ordered separately.	271920	-
Set of screws			
	Set of M5 x 14 screws (self-tapping) for 9490 vibration brackets Number of screws in a set: 25	275516	-

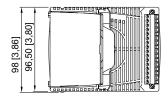


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A4

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





4

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