



- Eight channels can be used individually as inputs or outputs
- Intrinsically safe Ex ia IIC inputs/outputs with line fault monitoring and LED error indication for each channel
- Module in Zone 1 can be hot swapped

A4

WebCode 9468A



The 9468/32 series HART Analog Universal Module for Zone 1 has eight channels that can be used individually for Ex i operating two-/three-conductor HART transmitters, four-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.

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





	NEC 505 Class I			NEC 506		
	0	1	2	20	21	22
Zone						
Ex interface	•	•	•	•	•	•
Installation in		•	•		•	•

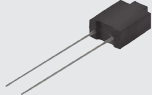
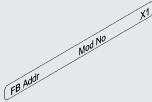



	NEC 500					
	Class I		Class II		Class III	
	1	2	1	2	1	2
Division						
Ex interface	•	•	•	•	•	•
Installation in	•	•	•	•	•	•

Selection Table							
Installation	Zone 1, Zone 2, Zone 21, Zone 22 and in the safe area						
Number of channels	Product Type				Art. No.	PS	Weight kg
8 Ex i inputs/outputs	9468/32-08-11				210659 ▲	22	0.275

Technical Data	
Explosion Protection	
Gas explosion protection IECEx	Ex ia [ia Ga] IIC T4 Gb
Gas explosion protection ATEX	⊕ II 2 (1) G Ex ia [ia Ga] IIC T4 Gb
Gas explosion protection EAC	2 Ex nA ia [ia Ga] IIC T4 Gc X
Dust explosion protection IECEx	[Ex ia Da] IIIC
Dust explosion protection ATEX	⊕ II (1) D [Ex ia Da] IIIC
Dust explosion protection EAC	[Ex ia Da] IIIC
Certificates	ATEX (DEK), Brazil (ULB), Canada (FM), EAC (STV), IECEx (DEK), India (PESO), Korea (KTL), Russia (Meteorological certificate), USA (FM)
Ship approval	ABS, CCS, ClassNK, DNVGL, RINA
Safety Data	
Max. voltage U ₀	24.4 V
Max. current I ₀ (2-conductor)	80 mA
Max. current I ₀ (3-conductor)	81.8 mA

Technical Data	
Safety Data	
Max. power P _o (2-conductor)	488 mW
Max. power P _o (3-conductor)	499 mW
Electrical Data	
Number of channels	8 Ex i inputs/outputs
Channels	each with adjustable parameters as input or output (3-wire, 4-wire transmitters, or active mA-sources occupy 2 channels)
Nominal signal	4 ... 20 mA 0 ... 20 mA
Supply voltage	16 V, at 20 mA for 2-wire transmitters
Communication signal	HART protocol
Connection Ex i field signals	Pluggable, blue terminals, 16-pole, 2.5 mm ² , screw- or spring-type versions with lock
Notes	In order to operate an active 4-wire HART transmitter, a 9164 must be connected between each channel. 9164 is not required when operating 4-wire transmitter without HART communication.
Auxiliary Power	
Current consumption	220 mA (at 20 mA per channel)
Max. power consumption	5.3 W (at 20 mA / channel)
Max. power dissipation outputs	3.7 W (at 20 mA, 500 Ohm / channel)
Max. power dissipation inputs	2.7 W (at 20 mA / channel)
Input	
Max. input resistance	14.1 ohms per channel
Output	
Output load resistance max.	750 ohms at 20 mA 700 ohms at 21.8 mA
Output step response (10 ... 90 %)	40 ms
Mechanical Data	
Degree of protection IP (IEC 60529)	IP20

Accessories and Spare Parts			
Figure	Description	Art. No.	Weight kg
Pluggable terminal			
	2.5 mm ² with lock, 16-pole, screw connector, blue, for connecting the field signals to I/O modules, for intrinsically safe field circuits Labelling: 1 ... 16 Attention: An additional terminal is necessary for I/O module Series 9470 and 9482. Labelling: 17 ... 32	162702	0.028
	2.5 mm ² with lock, 16-pole, spring clamp connection, blue, for connecting the field signals to I/O modules, for intrinsically safe field circuits, incl. test jacks Labelling: 1 ... 16 Attention: An additional terminal is necessary for I/O module Series 9470 and 9482. Labelling: 17 ... 32	162695 ▲	0.028
mA-Isolating repeater			
	The mA isolating repeaters are used for the connection of 4-wire transmitters to active 2-wire inputs and for the galvanic separation. Input: sink, Ex e Output: sink, Ex i	224365	0.140
	The mA isolating repeaters are used for the connection of 4-wire transmitters to active 2-wire inputs and for the galvanic separation. Input: sink, Ex i Output: sink, Ex i	224364	0.090

Accessories and Spare Parts			
Figure	Description	Art. No.	Weight kg
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; 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; TIM 9482	244912	-
Labelling strips			
	"FB Addr ... Mod No ..." for pluggable terminal, sheet with 26 strips	162788	0.001
DIN A4 sheet			
	For label plate on I/O modules; 6 labels on each sheet; print-out using IS Wizard; packaging unit = 20 sheets	162832	0.001
Warning sign			
	"Clean modules only with a damp cloth."	162796	0.001
Partition			
	For mounting between intrinsically safe and non-intrinsically safe connections of the I/O modules, in order to adhere to the required 50 mm distance	220101 ▲	0.010

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

