



- Eight channels can be used as analogue inputs or outputs, and 4 of these channels can be used as binary inputs or outputs
- Inputs/outputs Ex Ec with line fault monitoring, an LED fault and status display for each channel and SIL2 shutdown input
- Module in Zone 2, Cl. I, Div. 2 can be replaced during operation (hot swap)

06 b

WebCode **9469A**



The HART 9469/35 universal module for Zone 2, Cl. I, Div. 2 has 8 channels that are suitable for separately operating 2-/3-/4-line HART transmitters, control valves/position regulators and operating 3-line proximity switches and 24 V / 0.5 A binary output signal can be used.

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

	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 Section 18 NEC® 505   NEC® 506					
	Class I					
Zone	0	1	2	20	21	22
Ex interface			•			
Installation in			•			

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

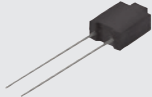

Selection Table				
Installation	Zone 2, Cl. I, Div. 2 and in the safe area (non-intrinsically safe field circuits)			
Number of channels	Product Type	Art. No.	Weight	
(adjustable parameters in pairs) 8 Ex ec/nA universal input/output	<b>9469/35-08-12</b>	230184 ▲	250 g	
Please order terminal separately – see accessories and spare parts				

Technical Data	
Explosion Protection	
FMus certificate	FM17US0332X
cFM certificate	FM16CA0134X
Marking cFMus	NI, Class I, Div. 2, Groups A,B,C,D; Class I, Zone 2, AEx/Ex ec ic IIC T4 Gc Class I, Div. 2, Groups A,B,C,D; Ta = -40°C ... +75°C See Doc. 9496 6 031 001 1
IECEX gas explosion protection	Ex ec ic [ia Ga] IIC T4 Gc
Certificates	ATEX (DEK), Canada (FM), China (NEPSI), IECEX (DEK), India (PESO), Korea (KTL), SIL (exida), USA (FM)
Electrical Data	
Max. number of 2-conductor analogue input/ outputs	8 (channels 0 to 7)
Max. number of 3/4-conductor analogue inputs	4 (channels 4 to 7)
Max. number of 3-conductor PNP inputs	4 (channels 4 to 7)
Max. number of binary outputs	4 (channels 4 to 7)


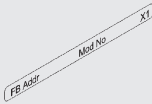

Technical Data	
<b>Electrical Data</b>	
Analogue digital communication	HART protocol
Digital communication note	Up to version 7.x, only for 4 to 20 mA
External supply voltage $U_i$ (X0)	18 to 32 V DC (nominal voltage 24 V)
Max. current consumption (X0)	4 x 0.5 A (depends on the total current of the binary outputs)
Control input suitability (X0)	Shutdown up to SIL 2, low demand (IEC 61508)
Control input function (X0)	"Plant STOP" for switching off all channels
<b>Auxiliary Power</b>	
Power supply connection	BusRail types 9494
Auxiliary power version	Intrinsically safe Ex ia via BusRail
Current consumption	250 mA
Max. power consumption	6 W
Max. power dissipation outputs	5.9 W
<b>Input</b>	
Analogue input signal type	2/3/4-conductor transmitter
Analogue input nominal signal	0 to 20 mA 4 to 20 mA
Max. input resistance analogue input	200 $\Omega$ per channel
Signal type binary input	3-conductor PNP initiators 2-conductor 24 V contacts
Binary input signal type	Corresponds to the ext. supply voltage $U_i$ (X0)
Binary input internal resistance	11 k $\Omega$
<b>Output</b>	
Analogue output signal type	2-conductor transmitter
Analogue output nominal signal	0 to 20 mA 4 to 20 mA
Max. input resistance analogue output	200 $\Omega$ per channel
Max. load resistance analogue output	750 $\Omega$ at 20 mA 700 $\Omega$ at 21.8 mA
Signal type binary output	2-conductor (24 V/0.5 A)
Binary output supply voltage	Corresponds to the ext. supply voltage $U_i$ - 0.7 V (X0)
Binary output current	30 mA to 0.5 A per channel (electronically limited)
Binary output connectable loads	Resistive Inductive Capacitive
<b>Ambient Conditions</b>	
Ambient temperature °F	-4°F ... +167°F
Ambient temperature °C	-40°C ... +75°C
<b>Mechanical Data</b>	
Degree of protection (IP) (IEC 60529)	IP20

Accessories			
Figure	Description	Art. No.	Weight
<b>Pluggable terminal</b>			
	1.5 mm <sup>2</sup> with lock, 24-pin, spring clamp connection, black, for connecting the field signals to I/O modules, for non-intrinsically safe field circuits Version: Only for 9469, 9471 and 9472 I/O modules Labelling: 1 to 24	245090 ▲	20 g

## Accessories

Figure	Description	Art. No.	Weight
<b>Resistor error message suppression</b>			
	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	-
<b>Partition</b>			
	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

## Spare Parts

Figure	Description	Art. No.	Weight
<b>Warning label</b>			
	"Clean modules only with a damp cloth."	162796	1 g
<b>Labelling strips</b>			
	"FB Addr ... Mod No ..." for pluggable terminal, 26 pieces on the sheet	162788	1 g
<b>DIN A4 sheet</b>			
	For label plate on I/O modules; 6 plates per sheet; IS Wizard printout; packaging unit = 20 sheets	162832	1 g

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

