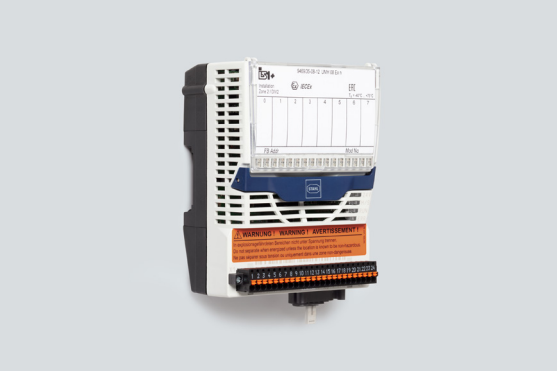

- 8 channels can be used as analogue inputs or outputs, and 4 of these channels can used as binary inputs or outputs
- Ex nA inputs/outputs with line fault monitoring, an LED fault and status display for each channel and SIL2 shutdown input
- Module in Zone 2 can be replaced during operation (hot swap)

WebCode 9469A

The HART 9469/35 universal module for Zone 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 binary 24 V / 0.5 A outputs.
Signals 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.

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

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

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

Selection Table				
Installation	Zone 2, Zone 22 and in the safe area (non-intrinsically safe field circuits)			
Number of channels	Product Type	Art. No.	PS	Weight kg
(adjustable parameters in pairs) 8 Ex ec/nA universal input/output	9469/35-08-12	230184 ▲	22	0.250

Technical Data	
Explosion Protection	
Gas explosion protection IECEx	Ex ec/nA ic [ia Ga] IIC T4 Gc
Gas explosion protection ATEX	⟨Ex⟩ II 3 (1) G Ex ec/nA ic [ia Ga] IIC T4 Gc
Gas explosion protection EAC	Ex 2 Ex e ic [ia Ga] IIC T4 Gc X Ex 2 Ex nA ic [ia Ga] IIC T4 Gc X
Certificates	Canada (FM), EAC (Sertium), IECEx (DEK), Korea (KTL), SIL (exida), USA (FM)
Electrical Data	
Max. number of 2-conductor analogue inputs/ outputs	8 (channels 0 ... 7)
Max. number of 3/4-conductor analogue inputs	4 (channels 4 ... 7)
Max. number of 3-conductor PNP inputs	4 (channels 4 ... 7)
Max. number of binary outputs	4 (channels 4 ... 7)
Analogue digital communication	HART protocol
Digital communication note	up to Version 7.x, only at 4 to 20 mA
External supply voltage U_n (X0)	18 ... 32 V DC (nominal voltage of 24 V)

Analog Universal Module HART Zone 2 Ex n

Series 9469/35

Technical Data

Electrical Data	
Max. current consumption (X0)	4 x 0.5 A (depends on the total current of the binary outputs)
Control input suitability (X0)	Disconnection up to SIL 2. low demand (IEC 61508)
Control input function (X0)	“Plant STOP” to switch off all outputs
Auxiliary Power	
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
Input	
Analogue input signal type	2/3/4-conductor transmitter
Analogue input nominal signal	0 ... 20 mA 4 ... 20 mA
Analogue input max. input resistance	200 Ω per channel
Binary input signal type	3-conductor PNP initiators 2-conductor 24 V contacts
Binary input signal type	corresponds to the ext. supply voltage U_H (X0)
Binary input internal resistance	11 kΩ
Output	
Analogue output signal type	2-conductor transmitter
Analogue output nominal signal	0 ... 20 mA 4 ... 20 mA
Analogue output max. input resistance	200 Ω per channel
Analogue output max. load resistance	750 Ω at 20 mA 700 Ω at 21.8 mA
Binary output signal type	2-conductor (24 V / 0.5 A)
Binary output supply voltage	corresponds to the ext. supply voltage U_H - 0.7 V (X0)
Binary output output current	30 mA … 0.5 A per channel (electronically limited)
Binary output connectable loads	ohmic inductive capacitive
Mechanical Data	
Degree of protection IP (IEC 60529)	IP20
Width	96.5 mm
Height	67 mm
Length	128 mm

Accessories and Spare Parts

Figure	Description	Art. No.	Weight kg
Plug-in terminal			
	1.5 mm² with lock, 24-pole, spring clamp connection, black for connecting the field signals to I/O modules, for non-intrinsically safe field circuits Caution: only for 9469, 9471 and 9472 I/O modules Labelling: 1 ... 24	245090 ▲	–
	1.5 mm² with lock, 24-pole, spring clamp connection, black for connecting the field signals to I/O modules, for non-intrinsically safe field circuits Caution: only for 9469, 9471 and 9472 I/O modules Labelling: 25 ... 48	245091 ▲	–

▲ Preferred products – in stock or available at short notice

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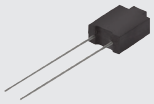
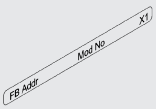
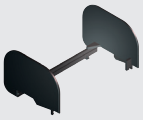
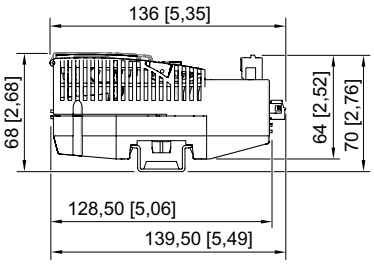
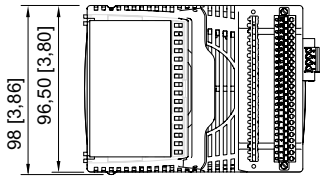
Accessories and Spare Parts

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, 26 pieces on the sheet	162788	0.001
DIN A4 sheet			
	For the label plate on I/O modules, 6 labels per sheet Print IS Wizard, packaging unit = 20 sheets	162832	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
Warning sign			
	"Clean modules only with a damp cloth."	162796	0.001

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





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