

- Eight channels can be used as analogue inputs or outputs, and four of these channels can used as binary inputs or outputs
- Ex ec 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 without having to disconnect the power supply (i.e. hot-swapped)


## WebCode 9469A



HART Connconcon mococo

The 9469/35 HART analogue universal module for Zone 2 has eight channels which can be used separately for operation of 2-/3-/4-conductor HART transmitters, or control valves/positioners, as well as for operation of 3-conductor proximity switches and $24 \mathrm{~V} / 0.5 \mathrm{~A}$ binary outputs.
HART communication is bidirectional. All inputs/outputs are short-circuit proof, galvanically separated from the system and individually monitored to check for line faults.



| Technical Data |  |
| :---: | :---: |
| Explosion Protection |  |
| IECEx gas explosion protection | Ex ec ic [ia Ga] IIC T4 Gc |
| ATEX gas explosion protection | (0x) II 3 (1) G 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) |
| Declaration of Conformity | ATEX (EUK), China (CCC) |
| 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) |
| Analogue digital communication | HART protocol |
| Digital communication note | Up to version 7.x, only for 4 to 20 mA |
| External supply voltage $\mathrm{U}_{\mathrm{H}}(\mathrm{X} 0)$ | 18 to 32 V DC ( ( 0 minal voltage 24 V ) |
| Max. current consumption (X0) | $4 \times 0.5 \mathrm{~A}$ (depends on the total current of the binary outputs) |


| Technical Data |  |
| :---: | :---: |
| Electrical Data |  |
| Control input suitability (X0) | Shutdown up to SIL 2, low demand (IEC 61508) |
| Control input function (X0) | "Plant STOP" for switching off all channels |
| 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 | $\begin{aligned} & 0 \text { to } 20 \mathrm{~mA} \\ & 4 \text { to } 20 \mathrm{~mA} \end{aligned}$ |
| 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 $U_{H}(X 0)$ |
| Binary input internal resistance | $11 \mathrm{k} \Omega$ |
| Output |  |
| Analogue output signal type | 2-conductor transmitter |
| Analogue output nominal signal | $\begin{aligned} & 0 \text { to } 20 \mathrm{~mA} \\ & 4 \text { to } 20 \mathrm{~mA} \end{aligned}$ |
| Max. input resistance analogue output | $200 \Omega$ per channel |
| Max. load resistance analogue output | $\begin{aligned} & 750 \Omega \text { at } 20 \mathrm{~mA} \\ & 700 \Omega \text { at } 21.8 \mathrm{~mA} \end{aligned}$ |
| Signal type binary output | 2-conductor ( $24 \mathrm{~V} / 0.5 \mathrm{~A}$ ) |
| Binary output supply voltage | Corresponds to the ext. supply voltage $\mathrm{U}_{H}-0.7 \mathrm{~V}(\mathrm{X} 0)$ |
| Binary output output current | 30 mA to 0.5 A per channel (electronically limited) |
| Binary output connectable loads | Resistive Inductive Capacitive |
| Ambient Conditions |  |
| Ambient temperature | $-40^{\circ} \mathrm{C} \ldots+75^{\circ} \mathrm{C}$ |
| Mechanical Data |  |
| Degree of protection (IP) (IEC 60529) | IP20 |
| Width | 96.5 mm |
| Height | 67 mm |
| Length | 128 mm |


| Accessories |  |  |  |
| :---: | :---: | :---: | :---: |
| Figure | Description | Art. No. | Weight |
| Pluggable terminal |  |  |  |
|  | $1.5 \mathrm{~mm}^{2}$ 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 |
| Resistor error message suppression |  |  |  |
|  | The resistors are used to suppress error messages for unused I/O channels Resistance value: $5 \mathrm{~K} 6 / 0.5 \mathrm{~W}$ <br> Suitable for: AIM 9468; UMH 9469; DIOM 9470; DIOM 9471; DIOM 9472; DOM 9475 <br> 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: $62 \mathrm{R} / 0.5 \mathrm{~W}$ <br> Suitable for: AOM 9468; UMH 9469; DIOM 9472; TIM 9482 | 244912 | - |



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


