

- 16 channels can be used in pairs as inputs or outputs
- Ex ia IIC intrinsically safe inputs/outputs with line fault monitoring
- Module in Zone 2 can be replaced without having to disconnect the power supply (i.e. hot-swapped)


## MY R. STAHL 9470D

The 9470/33 digital input/output module for Zone 2 has 16 channels which can be used in pairs for Ex i operation as inputs for contacts and NAMUR proximity switches (EN 60947-5-6) or as outputs for indicator lamps and low-power solenoid valves. Eight inputs can be used for frequencies of up to 20 kHz , and four can be used for detecting the direction of rotation.
All inputs/outputs are short-circuit proof and galvanically separated from the system.


| Selection Table |  |  |  |
| :---: | :---: | :---: | :---: |
| Installation | In Zone 2 and safe areas |  |  |
| Number of channels | Product Type | Art. No. | Weight |
| 16 Ex i inputs/outputs (adjustable parameters in pairs) | 9470/33-16-10 | 210448 | 275 g |
| Please order two terminals separately - see accessories and spare parts |  |  |  |


| Technical Data |
| :--- |
| Explosion Protection |
| IECEx gas explosion protection |
| IECEx dust explosion protection ia [ia Ga] IIC T4 Gc |
| ATEX gas explosion protection |
| [Ex ia Da] IIIC |
| ATEX dust explosion protection |
| Certificates |
| Ship approval 3 (1) G Ex ec ia [ia Ga] IIC T4 Gc |
| Declaration of Conformity (1) D [Ex ia Da] IIIC |
| Safety Data |
| Max. voltage U. |
| Max. current $I_{0}$ (Ex ia) |
| Max. power (DEK), Brazil (ULB), Canada (FM), China (NEPSI), IECEx (DEK), India (PESO), Korea (KTL), USA (FM) |
| Auxiliary Power EU RO MR (DNV), KR, LR |
| Current consumption |


| Technical Data |  |
| :--- | :--- |
| Auxiliary Power | 2.5 W |
| Max. power consumption | 2.5 W |
| Max. power dissipation outputs |  |
| Input | 8.2 V |
| Signal input | Frequency with direction (NAMUR) |
| Supply voltage | Up/down counter |
| Function | $6 \mathrm{VV} / 2 \mathrm{~mA}$ |
| Output | For the output characteristic, see the data sheet online at r-stahl.com (MY R. STAHL 9470D) |
| Output rated operation | $-40^{\circ} \mathrm{C} \ldots+75^{\circ} \mathrm{C}$ |
| Notes |  |
| Ambient Conditions | 96.5 mm |
| Ambient temperature | 67 mm |
| Mechanical Data | 128 mm |
| Width |  |
| Depth |  |
| Length |  |


| Accessories |  |  |  |
| :---: | :---: | :---: | :---: |
| Figure | Description | Art. No. | Weight |
| Pluggable terminal |  |  |  |
|  | $2.5 \mathrm{~mm}^{2}$ 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 <br> Note: A second terminal is additionally required for $1 / O$ module Series 9470 and 9482 Labelling: 17 to 32 | 162702 | 28 g |
|  | $2.5 \mathrm{~mm}^{2}$ with lock, 16-pin, screw connector, blue, for connecting the field signals to I/O modules, for intrinsically safe field circuits Labelling: 17 to 32 | 162718 | 28 g |
| amennemmerer | $2.5 \mathrm{~mm}^{2}$ 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 <br> Note: A second terminal is additionally required for I/O module Series 9470 and 9482 Labelling: 17 to 32 | 162695 | 28 g |
|  | $2.5 \mathrm{~mm}^{2}$ 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: 17 to 32 | 162716 | 28 g |
| 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 |
| 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 | - |
| Warning label |  |  |  |
| (1) | "Clean modules only with a damp cloth." | 162796 | 1 g |



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



