



- 8 channels for Ex i solenoid valves up to 30 mA
- Ex nA outputs with line fault monitoring, an LED fault and status display for each channel and SIL2 shutdown input
- Modules in Zone 1 can be replaced without having to disconnect the power supply (i.e. hot-swapped)

A4

MY R. STAHL 9475C



The 9475/32-08 digital output modules for Zone 1 have eight channels for controlling Ex i solenoid valves or indicator lamps. An additional Ex i control input is suitable for safe shutdown up to SIL 2. All outputs are short-circuit proof, galvanically separated from the system and individually monitored to check for wire breakage/short-circuiting.

| | IECEX / ATEX | | | | | |
|-----------------|--------------|---|---|----|----|----|
| Zone | 0 | 1 | 2 | 20 | 21 | 22 |
| Ex interface | • | • | • | • | • | • |
| Installation in | | • | • | | | |

| | 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 | | |
| Zone | Class I | | | | | |
| Zone | 0 | 1 | 2 | 20 | 21 | 22 |
| Ex interface | • | • | • | | | |
| Installation in | | • | • | | | |

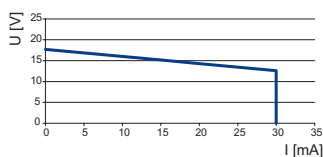
| Selection Table | | | | | | |
|-------------------------------------|---|--------------------------------|---------------|----------|--------|--|
| Product variant | Digital output module with "Plant STOP" | | | | | |
| Installation | Zone 1, Zone 2 and safe areas | | | | | |
| Open-circuit voltage U _o | Ex i output rated operation | Internal resistance of outputs | Product Type | Art. No. | Weight | |
| 17.5 V | 12.6 V/30 mA | 170 Ω | 9475/32-08-52 | 210655 | 275 g | |
| 23.5 V | 17.5 V/20 mA | 315 Ω | 9475/32-08-62 | 210656 | 275 g | |

Please order terminals separately – see accessories and spare parts

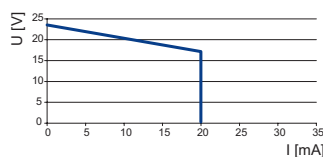
| Technical Data | | |
|-------------------------------------|---|---|
| Variant | 9475/32-08-52 | 9475/32-08-62 |
| Explosion Protection | | |
| IECEX gas explosion protection | Ex ia [ia Ga] IIC T4 Gb | Ex ia [ia Ga] IIC T4 Gb |
| IECEX dust explosion protection | [Ex ia Da] IIIC | [Ex ia Da] IIIC |
| ATEX gas explosion protection | ⊕ II 2 (1) G Ex ia [ia Ga] IIC T4 Gb | ⊕ II 2 (1) G Ex ia [ia Ga] IIC T4 Gb |
| ATEX dust explosion protection | ⊕ II (1) D [Ex ia Da] IIIC | ⊕ II (1) D [Ex ia Da] IIIC |
| Certificates | ATEX (DEK), Brazil (ULB), Canada (FM), China (NEPSI), IECEX (DEK), India (PESO), Korea (KTL), SIL (exida), USA (FM) | ATEX (DEK), Brazil (ULB), Canada (FM), China (NEPSI), IECEX (DEK), India (PESO), Korea (KTL), SIL (exida), USA (FM) |
| Ship approval | ABS, BVIS, EU RO MR (DNV), KR, LR | ABS, BVIS, EU RO MR (DNV), KR, LR |
| Declaration of Conformity | ATEX (EUK), China (CCC) | ATEX (EUK), China (CCC) |
| Safety Data | | |
| Max. voltage U _o | 19.4 V | 25.7 V |
| Max. current I _o (Ex ia) | 143 mA | 107 mA |
| Max. current I _o (Ex ib) | 37.8 mA | 26.3 mA |

| Technical Data | | |
|---------------------------------------|--|--|
| Variant | 9475/32-08-52 | 9475/32-08-62 |
| Safety Data | | |
| Max. power P_o (Ex ia) | 692 mW | 688 mW |
| Max. power P_o (Ex ib) | 506 mW | 468 mW |
| Electrical Data | | |
| Number of channels | 8 Ex i outputs | 8 Ex i outputs |
| Auxiliary Power | | |
| Current consumption | 250 mA | 240 mA |
| Max. power consumption | 6 W | 5.8 W |
| Max. power dissipation outputs | 4.8 W | 4 W |
| Input | | |
| Control input | Ex i control input X3 | Ex i control input X3 |
| Control input suitability | Shutdown up to SIL 2, low demand (IEC 61508) | Shutdown up to SIL 2, low demand (IEC 61508) |
| Control input function | "Plant STOP" for switching off all outputs | "Plant STOP" for switching off all outputs |
| Ambient Conditions | | |
| Ambient temperature | -40°C ... +75°C | -40°C ... +75°C |
| Mechanical Data | | |
| Degree of protection (IP) (IEC 60529) | IP20 | IP20 |
| Width | 96.5 mm | 96.5 mm |
| Height | 67 mm | 67 mm |
| Length | 128 mm | 128 mm |

Technical Drawings – Subject to Alterations



9475/32-08-52, 9475/33-08-50 output characteristic



9475/32-08-62, 9475/33-08-60 output characteristic

Accessories

| Figure | Description | Art. No. | Weight |
|---------------------------|---|----------|--------|
| Pluggable terminal | | | |
| | 2.5 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 Note: A second terminal is additionally required for I/O module Series 9470 and 9482 Labelling: 17 to 32 | 162702 | 28 g |
| | 2.5 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 Note: A second terminal is additionally required for I/O module Series 9470 and 9482 Labelling: 17 to 32 | 162695 | 28 g |
| Electronic relay | | | |
| | The 9174 electronic relay module makes it possible to switch Ex e loads using an intrinsically safe control system. Input: Ex i; output: 31.2 V/2 A DC, Ex e | 212340 | 110 g |

| Accessories | | | |
|---|---|----------|--------|
| Figure | Description | Art. No. | Weight |
| 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: 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 | - |
| Warning label | | | |
|  | "Clean modules only with a damp cloth." | 162796 | 1 g |
| DIN A4 sheet | | | |
|  | For label plate on I/O modules; 6 plates per sheet; IS Wizard printout; packaging unit = 20 sheets | 162832 | 1 g |
| Labelling strips | | | |
|  | "FB Addr ... Mod No ..." for pluggable terminal, 26 pieces on the sheet | 162788 | 1 g |
| Vibration bracket set | | | |
|  | When installed in environments with extreme vibration (> 0.7 g and max. 4 g), the 9490 vibration brackets may be used as an additional measure and provide mechanical stability for the individual modules. For mounting: All I/O modules, except 9477/12 and 9478 Number of brackets in a set: 8 Screws (item no. 275516) must be ordered separately. | 271920 | - |
| Set of screws | | | |
| | Set of M5 x 14 screws (self-tapping) for 9490 vibration brackets Number of screws in a set: 25 | 275516 | - |
| Spare Parts | | | |
| Figure | Description | Art. No. | Weight |
| Ex i LED indicator lamp | | | |
|  | 8010/3-02 LED indicator lamp for intrinsically safe circuits, Ex i | 237972 | 35 g |
| LED indicator lamp for front installation | | | |
|  | for Ex i front installation | 240901 | 30 g |

