



- 8 channels for Ex i solenoid valves up to 30 mA
- Ex ia outputs with line fault monitoring
- Modules in Zone 2 can be replaced without having to disconnect the power supply (i.e. hot-swapped)

A4

MY R. STAHL 9475D



The 9475/33-08 digital output modules for Zone 2 have eight channels for controlling Ex i solenoid valves or indicator lamps. 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					
	Class I			NEC® 506		
Zone	0	1	2	20	21	22
Ex interface	•	•	•			
Installation in			•			

Selection Table

Installation 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	9475/33-08-50	210657	275 g
23.5 V	17.5 V/20 mA	315 Ω	9475/33-08-60	210658	275 g

Please order terminals separately – see accessories and spare parts

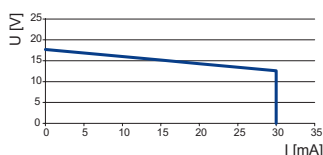
Technical Data

Variant	9475/33-08-50	9475/33-08-60
Explosion Protection		
IECEX gas explosion protection	Ex ec ia [ia Ga] IIC T4 Gc	Ex ec ia [ia Ga] IIC T4 Gc
IECEX dust explosion protection	[Ex ia Da] IIIC	[Ex ia Da] IIIC
ATEX gas explosion protection	Ex II 3 (1) G Ex ec ia [ia Ga] IIC T4 Gc	Ex II 3 (1) G Ex ec ia [ia Ga] IIC T4 Gc
ATEX dust explosion protection	Ex II (1) D [Ex ia Da] IIIC	Ex II (1) D [Ex ia Da] IIIC
Certificates	ATEX (DEK), Brazil (ULB), Canada (FM), China (NEPSI), IECEX (DEK), India (PESO), Korea (KTL), USA (FM)	ATEX (DEK), Brazil (ULB), Canada (FM), China (NEPSI), IECEX (DEK), India (PESO), Korea (KTL), 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)	ATEX (EUK)
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
Max. power P_o (Ex ia)	692 mW	688 mW
Max. power P_o (Ex ib)	506 mW	468 mW

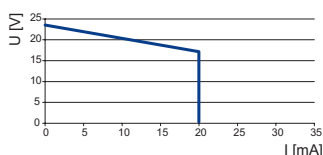
Technical Data

Variant	9475/33-08-50	9475/33-08-60
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
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



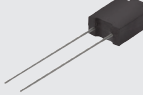
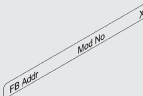
9475/32-08-52, 9475/33-08-50 output characteristic



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	20 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
Ex i/Ex e relay module for Zone 1			
	The Ex i/Ex e relay module is used for the galvanically isolated switching of intrinsically safe (Ex i) and non-Ex i (Ex e) electrical circuits. Coil circuit: Ex i or non-Ex i (Ex e) Contact circuit: Ex i or non-Ex i (Ex e) Thanks to the integrated safeguarding for the contact and coil circuit, additional safeguarding is not necessary. Usable with the following ISpac isolators: 9175/10-16-11, 9175/20-16-11, 9176/20-15-00, 9176/10-16-00, 9176/20-16-00, 9275/10-24-48-11, 9276/10-21-60-00, 9276/10-24-48-00 Usable with the following IS1+ modules: 9475/32-04-22, 9475/32-08-62, 9475/33-08-60	273000	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	2 g
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	200 g
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

