



- 4 channels for Ex i solenoid valves up to 40 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 9475E



The 9475/32-04 digital output modules for Zone 1 have four 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					
	0	1	2	20	21	22
Zone						
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		
	Class I					
Zone	0	1	2	20	21	22
Ex interface	•	•	•			
Installation in		•	•			

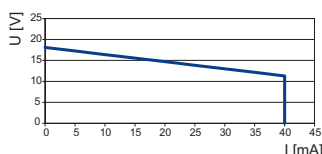
Selection Table						
Product variant	Digital output module with "Plant STOP"					
Installation	Zone 1, Zone 2 and safe areas					
Open-circuit voltage U_o	Ex i output rated operation	Internal resistance of outputs	Product Type	Art. No.	Weight	
17.9 V	11.3 V/40 mA	170 Ω	9475/32-04-12	210651	275 g	
23.6 V	12.3 V/40 mA	287 Ω	9475/32-04-22	210652	275 g	

Please order terminals separately – see accessories and spare parts

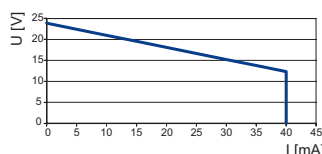
Technical Data		
Variant	9475/32-04-12	9475/32-04-22
Explosion Protection		
IECEX gas explosion protection	Ex ia [ia Ga] IIC T4 Gb	Ex ia [ia Ga] IIC T4 Gb
IECEX dust explosion protection	[Ex ia Da] IIIC	[Ex ia Da] IIIC
ATEX gas explosion protection	Ⓔ II 2 (1) G Ex ia [ia Ga] IIC T4 Gb	Ⓔ II 2 (1) G Ex 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	19.7 V	25.7 V
Max. current I_o (Ex ia)	142 mA	110 mA
Max. current I_o (Ex ib)	53.8 mA	49.5 mA

Technical Data		
Variant	9475/32-04-12	9475/32-04-22
Safety Data		
Max. power P_o (Ex ia)	698 mW	708 mW
Max. power P_o (Ex ib)	617 mW	648 mW
Electrical Data		
Number of channels	4 Ex i outputs	4 Ex i outputs
Auxiliary Power		
Current consumption	210 mA	240 mA
Max. power consumption	5 W	5.8 W
Max. power dissipation outputs	4 W	4.5 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



9475/32-04-12 output characteristic



9475/32-04-22 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

