



- With up to 8 de-energized relay contacts
- Non-I.S. outputs with a high switching capacity up to 100 VA
- Module in Zone 1, Cl. I, Div. 1 can be hot swapped

06 b

WebCode **9477A**



9477/12 series digital output module relays for Zone 1, Cl. I, Div. 1 have six or eight channels for operating non-intrinsically safe solenoid valves with a high switching capacity. Zero-potential relay contacts (normally open contacts) are available as outputs in Ex e or conduit connection technology. Operation in combination with Ex i I/O modules is permissible.

	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		•	•			

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

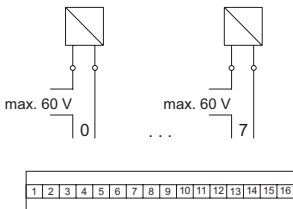
Selection Table						
Installation Zone 1 / Cl I, Div. 1						
Number of channels	Max. switching voltage	Max. switching current	Product Type	Art. No.	Weight	
6 Ex e outputs	250 V AC	2 A	9477/12-06-12	162630	2.57 kg	
8 Ex e outputs	60 V AC	2 A	9477/12-08-12	162627	2.57 kg	

Please order sockets separately - see accessories

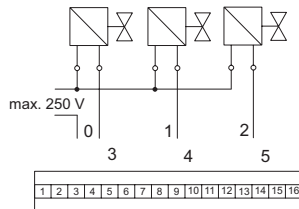
Technical Data		
Variant	6 Ex e outputs	8 Ex e outputs
Explosion Protection		
FMus certificate	FM17US0332X	FM17US0332X
cFM certificate	FM16CA0134X	FM16CA0134X
Marking cFMus	XP; Class I, Div. 1, Groups A,B,C,D; Class I, Zone 1, IIC; T4 at Ta = 65 °C; See Doc. 9477 6 031 001 1	XP; Class I, Div. 1, Groups A,B,C,D; Class I, Zone 1, IIC; T4 at Ta = 65 °C; See Doc. 9477 6 031 001 1
IECEX gas explosion protection	Ex d e [ia, ib] IIC T4	Ex d e [ia, ib] IIC T4
Certificates	ATEX (PTB), Canada (FM), IECEX (PTB), USA (FM)	ATEX (PTB), Canada (FM), IECEX (PTB), USA (FM)
Ship approval	ABS, BVIS, EU RO MR (DNV), KR, LR	ABS, BVIS, EU RO MR (DNV), KR, LR
Auxiliary Power		
Behaviour during undervoltage	All outputs "OFF"	All outputs "OFF"
Current consumption	200 mA	200 mA

Technical Data		
Variant	6 Ex e outputs	8 Ex e outputs
Auxiliary Power		
Max. power consumption	3.6 W	4.8 W
Max. power dissipation outputs	3.6 W	4.8 W
Output		
Contact version	NO	NO
Min. switching voltage	5 V AC/DC	5 V AC/DC
Min. switching current	2 mA	2 mA
Ambient Conditions		
Ambient temperature °F	-4°F ... +149°F	-4°F ... +149°F
Ambient temperature °C	-20°C ... +65°C	-20°C ... +65°C
Storage temperature °F	-40°F ... +158°F	-40°F ... +158°F
Storage temperature °C	-40°C ... +70°C	-40°C ... +70°C

Technical Drawings – Subject to Alterations



9477/12-08-12 connection diagram



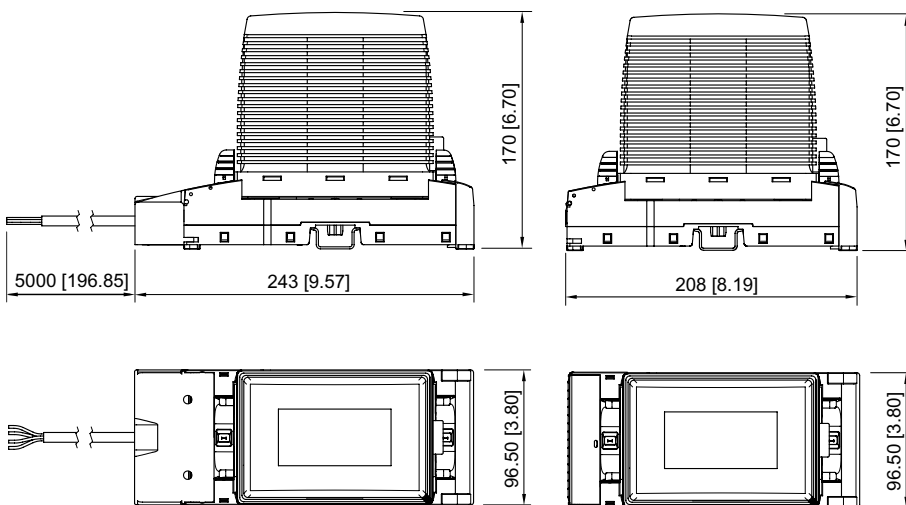
9477/12-08-12 connection diagram

Accessories

Figure	Description	Art. No.	Weight
Set of screws	Set of M5 x 14 screws (self-tapping) for 9490 vibration brackets Number of screws in a set: 25	275516	-

Socket and accessories for installation in Div. 1 available on request

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



Digital output model relay with base for Division 1

Digital output module relay for Zone 1