



- With up to 8 de-energised relay contacts
- Ex e outputs with a high switching capacity up to 100 VA
- Module in Zone 1 can be replaced without having to disconnect the power supply (i.e. hot-swapped)

A4

WebCode 9477A



The Series 9477/12 digital output module relays for Zone 1 have six or eight channels for operating non-intrinsically safe solenoid valves with a high switching capacity. De-energised relay contacts (NO contacts) with Ex e or conduit connection technology are available as outputs. Operation in combination with Ex i I/O modules is permissible.

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

	NEC® 500 CE Code Appendix J					
Division	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			Class II		
Zone	0	1	2	20	21	22
Ex interface		•	•			
Installation in		•	•			

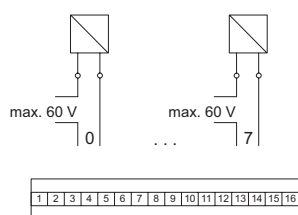
Selection Table					
Installation	Zone 1/Division 1				
Number of channels	Max. switching voltage	Product Type	Art. No.	Weight	
6 Ex e outputs	250 V AC	9477/12-06-12	162630	2.57 kg	
8 Ex e outputs	60 V AC	9477/12-08-12	162627	2.57 kg	

Please order the socket separately – see accessories

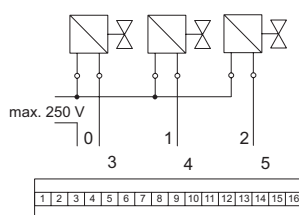
Technical Data		
Variant	6 Ex e outputs	8 Ex e outputs
Explosion Protection		
IECEx gas explosion protection	Ex d e [ia, ib] IIC T4	Ex d e [ia, ib] IIC T4
ATEX gas explosion protection	Ⓜ II 2 G Ex d e [ia, ib] IIC T4	Ⓜ II 2 G Ex d e [ia, ib] IIC T4
Certificates	ATEX (PTB), Canada (FM), IECEx (PTB), USA (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
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

Technical Data		
Variant	6 Ex e outputs	8 Ex e outputs
Ambient Conditions		
Ambient temperature	-20°C ... +65°C	-20°C ... +65°C
Storage temperature	-40°C ... +70°C	-40°C ... +70°C
Mechanical Data		
Width	96.5 mm	96.5 mm
Depth	170 mm	170 mm
Length	208 mm	208 mm

### Technical Drawings – Subject to Alterations



9477/12-08-12 connection diagram



9477/12-08-12 connection diagram

### Accessories

Figure	Description	Art. No.	Weight
Socket for digital output module relay			
	Division 1, connection by means of a conduit for digital output module relay 9477/12, 8 channels	162712	760 g
	Zone 1, connection by means of Ex e terminals for 9477/12 digital output module relay, 8 channels	162703	560 g
Socket for digital output module relay			
	Division 1, connection by means of a conduit for digital output module relay 9477/12, 6 channels	162713	760 g
	Zone 1, connection by means of Ex e terminals for 9477/12 digital output module relay, 6 channels	162705	527 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: 9477/12 DOMR module for Zone 1, single Number of brackets in a set: 1 Screws (item no. 275516) must be ordered separately.	271919	-
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

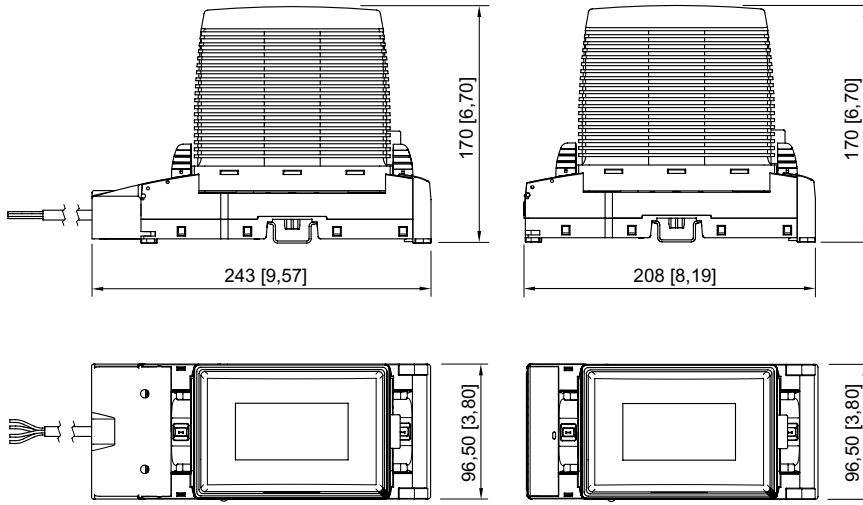
# Digital output module relay for Zone 1/Div. 1

Series 9477/12



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

A4



Digital output module relay with socket for Division 1

Digital output module relay for Zone 1