Class I, Division 1, Groups A, B, C, D or Class I, Zone 1, Group IIC

Class I, Division 2, Groups A, B, C, D or Class I, Zone 1, Group IIC

Hazardous (Classified) Locations

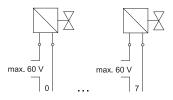


Connection allocation:

Type 9477/12-08-12 with base 9490/12-33 or 9490/11-33:

Output	Terminal X1 9490/11-33	Wire 9490/12-33		
0	1, 2	1, 2		
1	3, 4	3, 4		
2	5, 6	5, 6		
3	7, 8	7, 8		
4	9, 10	9, 10		
5	11, 12	11, 12		
6	13, 14	13, 14		
7	15, 16	15, 16		

Solenoid valve etc.

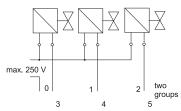


Volt free contact, normally open

Type 9477/12-06-12 with base 9490/12-34 or 9490/11-34:

Source	Output	Terminal X1 9490/11-34	Wire 9490/12-34	
0		1	1	
	0	3	3	
	1	5	5	
	2	7	7	
1		9	9	
	3	11	11	
	4	13	13	
	5	15	15	

Solenoid valve etc.



Volt free contact, normally open

The Digital Output Module Relay Type 9477/12-0*-12 is an explosion protected electrical apparatus for installation in a Class I, DIV 1 / DIV 2, Groups A, B, C, D or Class I, Zone 1, Group IIC hazardous location according to NEC Article 504/505 or Canadian Electrical Code, CSA C22 that uses relay contacts to control up to eight Non-I.S. circuits.

Socket type 9490/12-** is for installation in Division 1 or Zone 1. Socket type 9490/11-** is for installation in Division 2 or Zone 1.

Safety data for wiring configurations to the left are as follows:

The internal system circuits are safely galvanically isolated from all output circuits up to a peak voltage of 375 V.

Type 9477/12-08-12 with base 9490/12-33 or 9490/11-33 Relay circuits may not exceed the following nominal values:

U_n	60 V AC	30 V DC
- In	2 A	2 A
Pn	100 VA	-

The output circuits are safely galvanically isolated from earth and from each other up to an operating voltage of 60 V.

Type 9477/12-06-12 with base 9490/12-34 or 9490/11-34 Relay circuits may not exceed the following nominal values:

U_n	250 V AC	30 V DC
In	2 A	2 A
Pn	100 VA	-

The output circuits are safely galvanically isolated from earth and from each other up to an operating voltage of 250 V.

Notes:

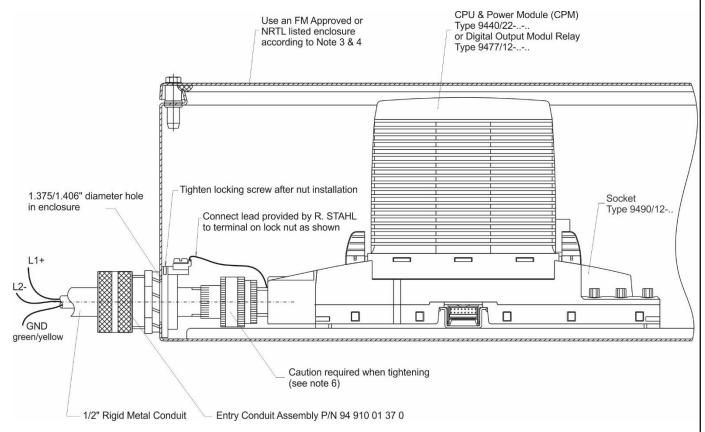
- At type 9477/12-06-12 relay circuit are grouped to two groups, each using a common source. Additional protection may be required to guarantee sufficient insulation if a group is only partly wired.
- Electrical Apparatus connected to an intrinsically safe system should not use or generate voltages > 253 V (U_m)
- The Relay Module may be detached from the Socket or plugged onto it during operation in hazardous locations.
- 4. Make sure that the Socket's release levers are in position 1 before plug in the Relay Module. To unplug the Relay Module, set the release levers from position 1 to position 2 first, which disconnects the Relay from the Socket. Pull the Relay Module out of the base up to the intermediate position and then set the release levers to position 1 to take it off.
- For Installation in Division 1 or Zone 1 see Certification drawing for IS1 resp. IS1+ Remote I/O System No. 9400 6 031 003 1 as part of the documentation of the CPU & Power Modules.
- For Installation in Division 2 or Zone 2 see Certification drawing for IS1 resp. IS1+ Remote I/O System No. 9400 6 031 004 1 or 9400 6 031 006 1 as part of the documentation of the CPU & Power Modules.

WARNING: Do not disconnect the power supply input or the socket when a flammable or combustable atmosphere is present.

AVERTISSEMENT: Ne pas débrancher l'entrée d'alimentation ou le socle en présence d'atmosphère inflammable ou combustible.

			2016 Drawn by	Date 03.03.	Name Bagusch		Certification drawing Digital Output Module Relay		
			Checked		Kaiser	Type 94	77/12-0*-12	Sheet	_
						Socket Ty	Socket Type 9490/1*-3*	1 of 2	
					STAHL	9477 6	031 001 1	Agency FM	
01	03.05.2018	Bagusch				01770	001 001 1	1 171	
Version	Date	Name				Rep. f.	Rep. t.		A4

Customer installation into a suitable enclosure IS1 resp. IS1+ for Class I, II, III, DIV 1 application with conduit Socket 9490/12-**:



Notes:

- 1. Electrical apparatus connected to an instrinsically safe system should not use or generate voltages > 250 V AC (Umax).
- Installation should be in accordance with the National Electrical Code, AINSI/NFPA 70 resp. Canadian Electrical Code.
- 3. Use a general purpose enclosure meeting the requirements of ANSI/ISA 61010-1 for use in nonhazardous or Class I, Division 1 or Class I, Zone 1 hazardous (classified) locations.
- 4. Use an FM approved or NRTL listed Dust-Ignition proof enclosure appropriate for environmental protection in Class II and Class III, Hazardous (Classified) Location.
- 5. Entry Conduit Assembly P/N 94 910 01 37 0 provides a NEMA Type 4 environmental seal and Class II / III / dust / fiber seal.
- 6. Hand tightening of the union sleeve is sufficient to complete the assembly and sealing characteristics (however, a final tightening is required to prevent loosening through vibration).
- 7. The socket is factory sealed for the conduit entry.

			2016 Drawn by Checked	Date 03.03.	Name Bagusch Kaiser	Certification drawing Digital Output Module Relay Type 9477/12-0*-12 Socket Type 9490/1*-3*	none Sheet 2 of 2
01	03.05.2018	Bagusch			STAHL	9477 6 031 001 1	Agency FM
Version	Date	Name				Rep. f. Rep. t.	A4