



- Eight channels for Ex i solenoid valves up to 30 mA
- Ex ia outputs with line fault monitoring
- Modules in Zone 2, Cl. I, II, Div. 2 can be hot swapped

06 b

WebCode 9475D



9475/33-08 series digital output modules for Zone 2, Cl. I, II, Div. 2 have eight channels for actuating 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.

	NEC® 500 CEC Appendix J					
	Class I		Class II		Class III	
Division	1	2	1	2	1	2
Ex interface	•	•	•	•	•	•
Installation in		•		•		•

	CEC Section 18					
	NEC® 505			NEC® 506		
	Class I					
Zone	0	1	2	20	21	22
Ex interface	•	•	•	•	•	•
Installation in			•			•

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

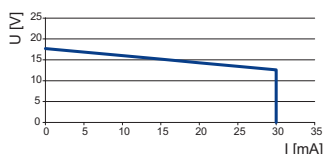
Selection Table					
Installation					
Zone 2, Zone 22, Cl. I, II, Div. 2 and in the safe area					
Open-circuit voltage U _o	Ex i output rated operation	Internal resistance of outputs	Product Type	Art. No.	Weight lb
17.5 V	12.6 V/30 mA	170 Ω	9475/33-08-50	210657	0.61
23.5 V	17.5 V/20 mA	315 Ω	9475/33-08-60	210658	0.61

Please order terminals separately - see accessories and spare parts

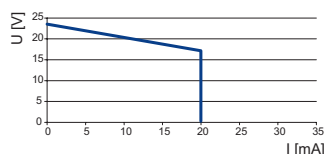
Technical Data		
Variant	9475/33-08-50	9475/33-08-60
Explosion Protection		
Certificate FMus	FM17US0332X	FM17US0332X
Certificate cFM	FM16CA0134X	FM16CA0134X
Marking FMus	NI, Class I,II,III, Div. 2, Groups A,B,C,D,E,F,G; AIS, Class I,II,III, Div. 1, Groups A,B,C,D,E,F,G; Class I, Zone 2, AEx nA ia [ia] IIC; T4 at Ta = 75 °C; See Doc. 9475 6 031 004 1	NI, Class I,II,III, Div. 2, Groups A,B,C,D,E,F,G; AIS, Class I,II,III, Div. 1, Groups A,B,C,D,E,F,G; Class I, Zone 2, AEx nA ia [ia] IIC; T4 at Ta = 75 °C; See Doc. 9475 6 031 004 1
Marking cFM	NI, Class I,II,III, Div. 2, Groups A,B,C,D,E,F,G; AIS, Class I,II,III, Div. 1, Groups A,B,C,D,E,F,G; Class I, Zone 2, Ex nA ia [ia] IIC; T4 at Ta = 75 °C; See Doc. 9475 6 031 004 1	NI, Class I,II,III, Div. 2, Groups A,B,C,D,E,F,G; AIS, Class I,II,III, Div. 1, Groups A,B,C,D,E,F,G; Class I, Zone 2, Ex nA ia [ia] IIC; T4 at Ta = 75 °C; See Doc. 9475 6 031 004 1
IECEX gas explosion protection	Ex nA ia [ia Ga] IIC T4 Gc	Ex nA ia [ia Ga] IIC T4 Gc
IECEX dust explosion protection	[Ex ia Da] IIIC	[Ex ia Da] IIIC
Certificates	ATEX (DEK), Brazil (ULB), Canada (FM), EAC (STV), IECEX (DEK), India (PESO), Korea (KTL), SIL (exida), USA (FM)	ATEX (DEK), Brazil (ULB), Canada (FM), EAC (STV), IECEX (DEK), India (PESO), Korea (KTL), SIL (exida), USA (FM)
Ship approval	DNVGL, RINA	DNVGL, RINA

Technical Data		
Variant	9475/33-08-50	9475/33-08-60
Safety Data		
Max. voltage U_0/V_{oc}	19.4 V	25.7 V
Max. current I_0 (Ex ia)	143 mA	107 mA
Max. current I_0 (Ex ib)	37.8 mA	26.3 mA
Max. power P_0 (Ex ia)	692 mW	688 mW
Max. power P_0 (Ex ib)	506 mW	468 mW
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 °F	-40°F ... +167°F	-40°F ... +167°F
Ambient temperature °C	-40°C ... +75°C	-40°C ... +75°C
Mechanical Data		
Degree of protection IP (IEC 60529)	IP20	IP20

Technical Drawings – Subject to Alterations



Output characteristic 9475/33-08-50



Output characteristic 9475/33-08-60

Accessories

Figure	Description	Product Type	Art. No.	Weight lb
Pluggable terminal				
	2.5 mm ² with lock, 16-pole, screw connector, blue, for connecting the field signals to I/O modules, for intrinsically safe field circuits Labelling: 1 ... 16 Attention: An additional terminal is necessary for I/O module Series 9470 and 9482. Labelling: 17 ... 32	-	162702 ▲	0.06
	2.5 mm ² with lock, 16-pole, spring clamp connection, blue, for connecting the field signals to I/O modules, for intrinsically safe field circuits, incl. test jacks Labelling: 1 ... 16 Attention: An additional terminal is necessary for I/O module Series 9470 and 9482. Labelling: 17 ... 32	-	162695	0.06
Electronic relay				
	The electronic relay module 9174 is used to switch Ex e loads by using intrinsically safe control signals. Input: Ex i Output: 48 V / 2 A DC, Ex e	9174/10-14-00	212340	0.24
LED Indicator lamp Ex i				
	LED indicator lamp for intrinsically safe circuits 8010/3-02, Ex i	8010/3-02	237972	0.08

Accessories				
Figure	Description	Product Type	Art. No.	Weight lb
Labelling strips				
	"FB Addr ... Mod No ..." for pluggable terminal, 26 pieces on the sheet	-	162788	-
DIN A4 sheet				
	For the label plate on I/O modules, 6 labels per sheet Print IS Wizard, packaging unit = 20 sheets	-	162832	-
Partition				
	For mounting between intrinsically safe and non-intrinsically safe connections of the I/O modules, in order to adhere to the required 50 mm distance	-	220101	0.02
Warning sign				
	"Clean modules only with a damp cloth."	-	162796	-
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; DIOM 9470; DIOM 9471; DIOM 9472; DOM 9475 For intrinsically safe circuits (simple apparatus according to EN 60079-11)	-	244911	-

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

