



- Four channels for Ex i solenoid valves up to 40 mA
- Ex ia outputs with line fault monitoring and LED error and status indication for each channel plus SIL 2 shutdown input
- Modules in Zone 1, Cl. I, II, Div. 1 can be hot swapped

06 b

WebCode 9475E



9475/32-04 series digital output modules for Zone 1, Cl. I, II, Div. 1 have four channels for actuating 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.

	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		•	•		•	•

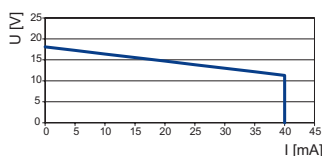
	IECEX / ATEX					
	Zone	0	1	2	20	21
Ex interface	•	•	•	•	•	•
Installation in		•	•		•	•

Selection Table						
Product variant	Digital output module with "Plant STOP"					
Installation	Zone 1, Zone 2, Zone 21, Zone 22, Cl. I, II, Div. 1, 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	
17.9 V	11.3 V/40 mA	170 Ω	9475/32-04-12	210651	0.61	
23.6 V	12.3 V/40 mA	287 Ω	9475/32-04-22	210652 ▲	0.61	
Please order terminals separately - see accessories and spare parts						

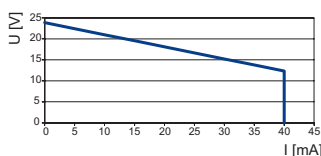
Technical Data		
Variant	9475/32-04-12	9475/32-04-22
Explosion Protection		
Certificate FMus	FM17US0332X	FM17US0332X
Certificate cFM	FM16CA0134X	FM16CA0134X
Marking FMus	IS; Class I,II,III, Div. 1, Groups A,B,C,D,E,F,G; AIS; Class I,II,III, Div. 1, Groups A,B,C,D,E,F,G; Class I, Zone 1, AEx ia [ia] IIC; T4 at Ta = 75 °C; See Doc. 9475 6 031 001 1	IS; Class I,II,III, Div. 1, 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 1, AEx ia [ia] IIC; T4 at Ta = 75 °C; See Doc. 9475 6 031 001 1
Marking cFM	IS; Class I,II,III, Div. 1, 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 1, Ex ia [ia] IIC; T4 at Ta = 75 °C; See Doc. 9475 6 031 001 1	IS; Class I,II,III, Div. 1, 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 1, Ex ia [ia] IIC; T4 at Ta = 75 °C; See Doc. 9475 6 031 001 1
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] IIC	[Ex ia Da] IIC

Technical Data		
Variant	9475/32-04-12	9475/32-04-22
Explosion Protection		
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
Safety Data		
Max. voltage $U_{j/V_{oc}}$	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
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	Switch-off up to SIL 2, low demand (IEC61508)	Switch-off up to SIL 2, low demand (IEC61508)
Control input function	"Plant STOP" to switch off all outputs	"Plant STOP" to switch off all outputs
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





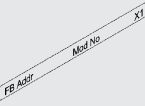


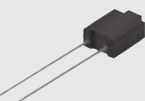
Output characteristic 9475/32-04-12



Output characteristic 9475/32-04-22

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

Accessories				
Figure	Description	Product Type	Art. No.	Weight lb
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
	The electronic relay module 9174 is used to switch Ex e loads by using intrinsically safe control signals. Input: Ex i Output: 250 V / 1 A DC, Ex e	9174/10-15-00	212431	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
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	-

