



- Four channels for Ex i hydraulic and solenoid valves up to 95 mA
- Ex ib 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. 2 can be hot swapped

06 b

WebCode 9475F



9475/32-04-72 series digital output modules for Zone 1, Cl. I, II, Div. 2 have four channels for actuating Ex i hydraulic and 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		•	•		•	•

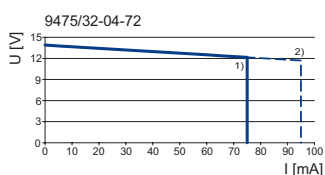
	IECEX / ATEX					
	Zone	0	1	2	20	21
Ex interface		•	•		•	•
Installation in		•	•		•	•

Selection Table						
Product variant	Digital output module with "Plant STOP"					
Installation	Zone 1, Zone 2, Zone 21, Zone 22, Cl. I, II, Div. 2 and in the safe area					
Open-circuit voltage U <sub>o</sub>	Ex i output rated operation	Internal resistance of outputs	Product Type	Art. No.	Weight lb	
13.8 V	12.3 V/75 mA 11.7 V/95 mA	23.2 Ω	9475/32-04-72	218063	0.61	
Please order terminals separately - see accessories and spare parts						

Technical Data	
Explosion Protection	
Certificate FMus	FM17US0332X
Certificate cFM	FM16CA0134X
Marking FMus	IS; Class I,II,III, Div. 2, Groups A,B,C,D,E,F,G; NIFW; Class I,II,III, Div. 2, Groups A,B,C,D,E,F,G; Class I, Zone 1, AEx ia [ib] IIC; T4 at Ta = 75 °C; See Doc. 9475 6 031 005 1
Marking cFM	IS; Class I,II,III, Div. 2, Groups A,B,C,D,E,F,G; NIFW; Class I,II,III, Div. 2, Groups A,B,C,D,E,F,G; Class I, Zone 1, Ex ia [ib] IIC; T4 at Ta = 75 °C; See Doc. 9475 6 031 005 1
IECEX gas explosion protection	Ex ia [ib Gb] IIC T4 Gb
IECEX dust explosion protection	[Ex ib Db] IIIC
Certificates	ATEX (DEK), Brazil (ULB), Canada (FM), EAC (STV), IECEX (DEK), India (PESO), Korea (KTL), SIL (exida), USA (FM)
Ship approval	DNVGL, RINA

Technical Data	
<b>Safety Data</b>	
Max. voltage $U_0/V_{oc}$	15.4 V
Max. current $I_0$ (Ex ib)	115.4 mA
Max. power $P_0$ (Ex ib)	1475 mW
<b>Auxiliary Power</b>	
Current consumption	250 mA
Max. power consumption	6 W
Max. power dissipation outputs	5.8 W
<b>Input</b>	
Control input	Ex i control input X3
Control input suitability	Switch-off up to SIL 2, low demand (IEC61508)
Control input function	"Plant STOP" to switch off all outputs
<b>Output</b>	
Ex i output rated operation	12.3 V/75 mA 11.7 V/95 mA
<b>Ambient Conditions</b>	
Ambient temperature °F	-40°F ... +167°F
Ambient temperature °C	-40°C ... +75°C
<b>Mechanical Data</b>	
Degree of protection IP (IEC 60529)	IP20

## Technical Drawings – Subject to Alterations


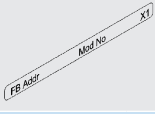





- <sup>1)</sup> 4 channels
- <sup>2)</sup> max. 3 channels

Output characteristic 9475/32-04-72

## Accessories

Figure	Description	Product Type	Art. No.	Weight lb
<b>Pluggable terminal</b>				
	2.5 mm <sup>2</sup> 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 <sup>2</sup> 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
<b>Electronic relay</b>				
	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

Accessories				
Figure	Description	Product Type	Art. No.	Weight lb
<b>LED Indicator lamp Ex i</b>				
	LED indicator lamp for intrinsically safe circuits 8010/3-02, Ex i	8010/3-02	237972	0.08
<b>Labelling strips</b>				
	"FB Addr ... Mod No ..." for pluggable terminal, 26 pieces on the sheet	-	162788	-
<b>DIN A4 sheet</b>				
	For the label plate on I/O modules, 6 labels per sheet Print IS Wizard, packaging unit = 20 sheets	-	162832	-
<b>Partition</b>				
	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
<b>Warning sign</b>				
	"Clean modules only with a damp cloth."	-	162796	-

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

