



- Sixteen channels can be used in pairs as inputs or outputs (24 V / 0.5 A)
- Ex nA inputs/outputs with line fault monitoring and LED error and status indication for each channel plus SIL 2 shutdown input
- Module in Zone 2 can be hot swapped

A4

WebCode 9472A



The 9472/35 series 24 V digital input/output module for Zone 2 has 16 channels, which can be used in pairs for operation as inputs for contacts and PNP or NAMUR proximity sensors (EN 60947-5-6) or as outputs for solenoid valves up to 24 V/0.5 A. Eight inputs can be used for frequencies of up to 20 kHz, and four can be used for detecting the direction of rotation.

All inputs/outputs are short-circuit proof and galvanically separated from the system. Additional control input for "System OFF" (IEC61508 / through SIL2)

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



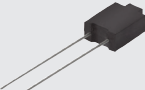
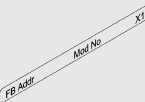

	NEC 505 Class I			NEC 506		
	0	1	2	20	21	22
Zone						
Ex interface			•			
Installation in			•			



	NEC 500					
	Class I		Class II		Class III	
	1	2	1	2	1	2
Division						
Ex interface		•				
Installation in		•				

Selection Table						
Installation	Zone 2					
Number of channels	Product Type	Art. No.	PS	Weight kg		
16 Ex ec/nA inputs/outputs (adjustable paramet. in pairs)	9472/35-16-12	230239 ▲	22	0.275		

Technical Data	
Explosion Protection	
Gas explosion protection IECEx	Ex ec/nA ic [ia Ga] IIC T4 Gc
Gas explosion protection ATEX	Ⓔ II 3 (1) G Ex ec/nA ic [ia Ga] IIC T4 Gc
Gas explosion protection EAC	2 Ex e ic [ia Ga] IIC T4 Gc X 2 Ex nA ic [ia Ga] IIC T4 Gc
Certificates	ATEX (DEK), Canada (FM), EAC (Sertium), IECEx (DEK), India (PESO), Korea (KTL), SIL (exida), USA (FM)
Auxiliary Power	
Current consumption	90 mA
Max. power consumption	2.2 W
Power dissipation max.	Output: 5.4 W Input: 1.4 W
Input	
Number of inputs	16 (NAMUR)
Signal input	EN 60947 (NAMUR)
Supply voltage input	8 V

Technical Data		
Input		
Supply voltage note	± 5 %	
Max. number of 3-conductor PNP inputs	16	
Max. No. of frequency inputs	8 (channel 8 ... 15)	
Function	Up/down counter Frequency with direction	
Control input	Control input X0	
Control input suitability	Switch-off up to SIL 2, low demand (IEC61508)	
Control input function	"Plant STOP" to switch off all outputs	
Notes	Max. supply voltage PNP: corresponds to the external supply voltage U_n (X0) External supply voltage U_n (X0): 18 ... 32 V DC (nominal voltage 24 V) Max. current consumption (X0): 4 x 0.5 A (depending on the total current of the binary outputs)	
Output		
Supply voltage binary	Corresponds to the ext. supply voltage U_n - 0.7 V (X0)	
Output current binary	30 mA ... 0.5 A per channel (electronically limited)	
Connectable loads	Ω ic Inductive Capacitive	
Mechanical Data		
Degree of protection IP (IEC 60529)	IP20	
Width	96.5 mm	
Height	67 mm	
Length	128 mm	

Accessories and Spare Parts			
Figure	Description	Art. No.	Weight kg
Plug-in terminal			
	1.5 mm ² with lock, 24-pole, spring clamp connection, black for connecting the field signals to I/O modules, for non-intrinsically safe field circuits Caution: only for 9469, 9471 and 9472 I/O modules Labelling: 1 ... 24	245090 ▲	-
	1.5 mm ² with lock, 24-pole, spring clamp connection, black for connecting the field signals to I/O modules, for non-intrinsically safe field circuits Caution: only for 9469, 9471 and 9472 I/O modules Labelling: 25 ... 48	245091 ▲	-
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	-
Labelling strips			
	"FB Addr ... Mod No ..." for pluggable terminal, sheet with 26 strips	162788	0.001
DIN A4 sheet			
	For label plate on I/O modules; 6 labels on each sheet; print-out using IS Wizard; packaging unit = 20 sheets	162832	0.001

Accessories and Spare Parts			
Figure	Description	Art. No.	Weight kg
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 ▲	0.010
Warning sign			
	"Clean modules only with a damp cloth."	162796	0.001

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

