



- Sixteen channels can be used in pairs as inputs or outputs
- Ex nA inputs/outputs with line fault monitoring and LED error and status indication for each channel
- Module in Zone 2 can be hot swapped

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WebCode 9471B



The 9471/35 series digital input/output module for Zone 2 has 16 channels, which can be used in pairs for operation as inputs for contacts, NAMUR proximity sensors (EN 60947-5-6) and PNP proximity switches or as outputs for indicator lamps and low-power solenoid valves. 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.

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



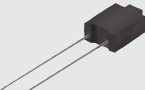
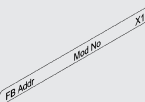



	NEC 505			NEC 506		
	Class I					
	0	1	2	20	21	22
Zone						
Ex interface			•			
Installation in			•			

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

Selection Table							
Installation	Zone 2, 22 and safe area						
Number of channels	Product Type				Art. No.	PS	Weight kg
(adjustable paramet. in pairs) 16 Ex ec/nA inputs/outputs	9471/35-16-11				230225 ▲	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), USA (FM)
Auxiliary Power	
Current consumption	90 mA
Max. power consumption	2.2 W
Power dissipation max.	0.7 W
Input	
Number of inputs	16 (NAMUR)
Signal input	EN 60947 (NAMUR)
Supply voltage input	8 V
Supply voltage note	± 5 %

Technical Data	
Input	
Max. number of 3-conductor PNP inputs	16
Max. No. of frequency inputs	8 (channel 8 ... 15)
Function	Frequency with direction Up/down counter
Notes	Max. supply voltage PNP: 24 V externally supplied
Output	
Output rated operation	6 V / 2 mA
Notes	Output characteristics, see data sheet online at r-stahl.com (WebCode 9471B)
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
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

Digital Input Output Module NAMUR for Ex n Zone 2

Series 9471/35



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

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