

ABB

ICSI16E1 FPR3316101R1032

Datasheet



Procontic CS31 Binary Input Remote Unit

Official technical pages selected from: ABB Procontic CS31 System Description

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OFFICIAL MANUFACTURER TECHNICAL CONTENT

4.1.5 ICSI 16 E1 Binary Input remote unit

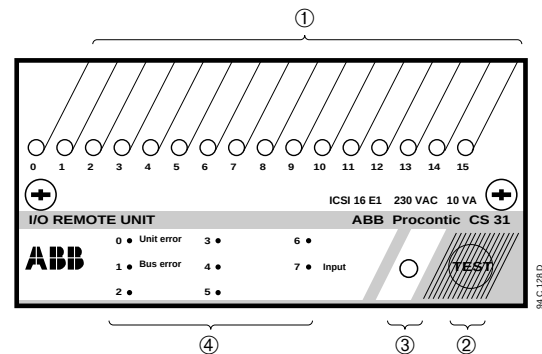
16 isolated inputs 24 VDC

Binary isolated input unit with 16 input channels for 24 VDC.

Description of the unit front :

- Sixteen yellow input status led's «0» to «15» ①
- «TEST» push-button ②
- Red error led ③
- List of error codes ④

The unit has to be mounted on a plug-in base ECZ



16 inputs per unit

TECHNICAL CHARACTERISTICS		
Power supply	24 VDC	230 VAC/120 VAC
Number of inputs per unit	16	16
Power supply isolation	no	yes (1500 VAC)
Inputs opto-isolated	yes(1500VAC)	yes(1500VAC)
Supply output regulated 24 VDC (± 5 %)	-	-
Signal level of the input, nominal value	24 VDC	24 VDC
Signal level of the input :		
0 signal	-3 to +5V	-3 to +5V
1 signal	+15 to +30V	+15 to +30V
Open circuit detection	-	-
Input current for 24 VDC	6 mA	6 mA
Input delay (*)	2 to 32 ms	2 to 32 ms
Maximum power consumption	0.2 A	10 VA
Maximum power dissipation	4.5 W	8 W
Order number : FPR 331 6101	R1032	R0036/R0034
Weight (kg)	0.25	0.43

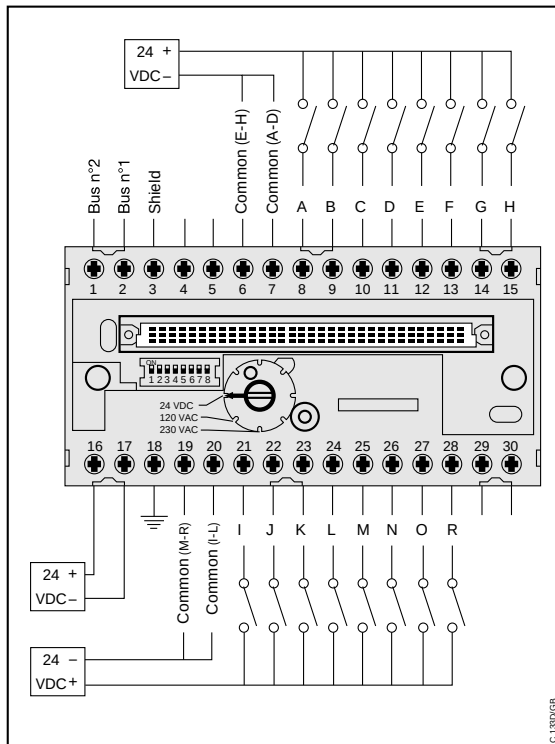
(*) This time can be changed, factory setting 8 ms.

Note : After setting the input delay, the effective value is 5 ms higher than the selected value.

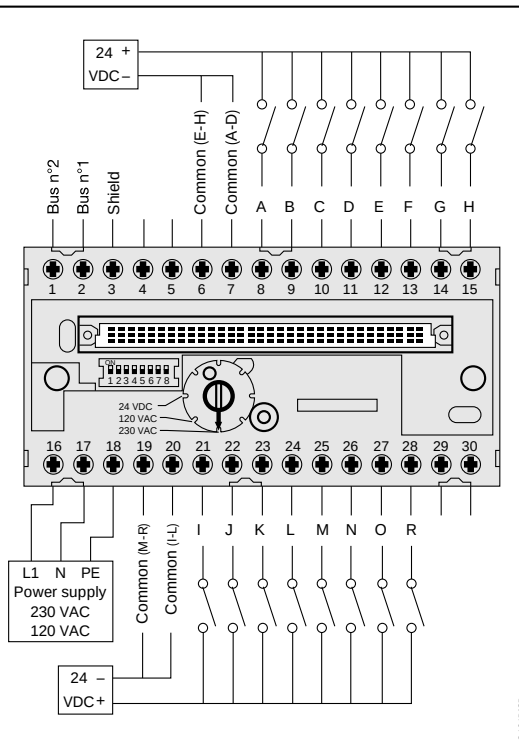
OFFICIAL MANUFACTURER TECHNICAL CONTENT

● Electrical connection

Power supply 24 VDC



Power supply 230 VAC and 120 VAC



Note : In case of use of only one external power supply 24 VDC for inputs, the different commons have to be connected together and to the O VDC of the power supply.

● Initialization

After configured and wired the unit :

- the unit initializes itself after power **On**.
- the error led goes out after initialization.
- the status of 16 inputs is displayed on the 16 led's.

OFFICIAL MANUFACTURER TECHNICAL CONTENT

• Utilization

VARIABLES USED IN THE CENTRAL UNIT					
CENTRAL UNITS		07 KR 31, 07 KR 91 07 KT 92, 07 KT 93	UCZA/UCZB		PCZB
Address xx on the plug-in base ECZ		00 ... 61	00 ... 62		1 ... 31
Switch N° 8 on the plug-in base ECZ		OFF	OFF	ON	OFF
Input	A	Exx, 00	Exx, 00	Exx, 08	Ixx00
	B	Exx, 01	Exx, 01	Exx, 09	Ixx01
	C	Exx, 02	Exx, 02	Exx, 10	Ixx02
	D	Exx, 03	Exx, 03	Exx, 11	Ixx03
	E	Exx, 04	Exx, 04	Exx, 12	Ixx04
	F	Exx, 05	Exx, 05	Exx, 13	Ixx05
	G	Exx, 06	Exx, 06	Exx, 14	Ixx06
	H	Exx, 07	Exx, 07	Exx, 15	Ixx07
	I	Exx, 08	Exx+1, 00	Exx+1, 08	Ixx08
	J	Exx, 09	Exx+1, 01	Exx+1, 09	Ixx09
	K	Exx, 10	Exx+1, 02	Exx+1, 10	Ixx10
	L	Exx, 11	Exx+1, 03	Exx+1, 11	Ixx11
	M	Exx, 12	Exx+1, 04	Exx+1, 12	Ixx12
	N	Exx, 13	Exx+1, 05	Exx+1, 13	Ixx13
	O	Exx, 14	Exx+1, 06	Exx+1, 14	Ixx14
	P	Exx, 15	Exx+1, 07	Exx+1, 15	Ixx15

For the PC board 07 CM 90 and the coupler boards 07 CS 61 and 35 CS 91, refer to their own description

The available configuration for each input :

– delay

• Fault indication

The led's indicate the following :

Led 0 : "Unit error"

Led 1 : "Bus error"

The status of an input channel is shown by :

Led 7 : "Input"

If an error occurs the red led error is **On** (see Chapter 9, Volume 2 «In case of failure»).



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