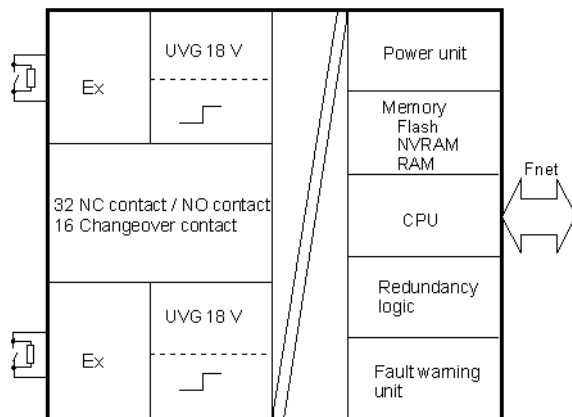


CBI 22 Ex - Binary input module

Features / Applications



- 32 binary inputs divided into two groups each with 16 inputs
- Process current circuits in accordance with EN 50020 with type of protection EEx ib IIC
- Combined installation possible with "Non-Ex-modules" in one module sub-rack
- Signal recording with 1 ms time resolution
- Monitoring of module
- Central galvanic separation of system inputs
- Group-set filter time
- Module is capable of redundancy

The binary input module CBI 22 Ex serves to interrogate the following sensors/signals:

- Max. 32 NC contact
- Max. 32 NO contact
- Max. 32 2-conductor changeover contact
- Max. 16 changeover contact

Technical data

Table: General module related technical data

Supply voltage:	UVG = 15 .. 18 V (16,5 V typ.)	
Input resistance:	RE = 6 kOhm	
Input rated current:	Ir = 2,75 mA	
With contact switching (redundant)	UeLow = 2V (typ.)	
High / Low - threshold:	UH/L = 3,2 V	
Breaking threshold:	UB = 0,38 V	
Galvanic separation:	Central	
Measuring voltage:	250 Veff	
Voltage testing:	1500 Veff (to the system in accordance with EN 50020)	
Max. input voltage:	22 VDC	
Ambient temperature:	0 ... 50° C (temperature for ventilating the module in the module sub-rack)	
Ex-type of protection intrinsic safety	[EEx ib] IIC	[EEx ib] IIB
Ex-relevant open circuit voltage (individual operation and redundancy operation)	U0 ≤ 22 V	U0 ≤ 22 V
Ex-relevant short-circuit current (individual operation)	I0 ≤ 14 mA	I0 ≤ 14 mA
Ex-relevant short-circuit current (redundancy operation)	I0 ≤ 28 mA	I0 ≤ 28 mA
Ex-relevant connection power (individual operation)	P0 ≤ 77 mW	P0 ≤ 77 mW
Ex-relevant connection power (redundancy operation)	P0 ≤ 154 mW	P0 ≤ 154 mW
maximum permitted outer capacity (individual operation and redundancy operation)	C0 ≤ 150 nF	C0 ≤ 800 nF
maximum permitted outer inductance (individual operation)	L0 ≤ 175 mH	L0 ≤ 640 mH
maximum permitted outer inductance (redundancy operation)	L0 ≤ 46 mH	L0 ≤ 170 mH
Voltage supply: -supply voltage: -fuse protection:	Uv1/Uv2 = 20 ... 33 V G-fusible element 5 * 20 3,15 A slow acting T 3,15 H	
Permissible overvoltages:	35 V (for 1 s) 45 V (for 10 ms)	
Current use (reference current; for UV = 24 V):	Iv = 260 mA	
Power loss (for UV = 24 V and coincidence factor 0,75):	Pv = 6,2 W	

Ordering Information

Catalog No.								Description	
72132-4-	0	7	8	8	7	3	2	CBI 22 Ex - Binary input module	
Additional Order Information									
								Former System Packet (Indicate Version)	BA-No. 601
Necessary Accessories:									
72199-4-	0	7	4	5	2	1	2	CI 120 Connection Unit, blue , EExi-Version, Basic 8 TE	
	0	7	4	5	2	0	2	CI 121 Connection Unit, blue , EExi-Version, Current-Limitation Redundant 8 TE	
66099-4-	0	7	7	5	1	9	8	A 801 Scanning Resistance	



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