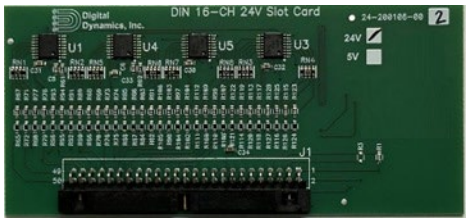
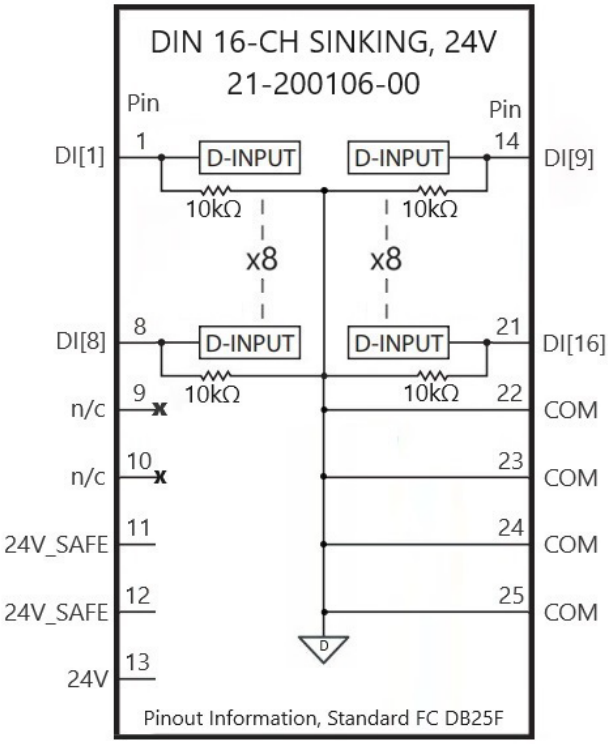
DIN 16-CH SINKING, 24V
21-200106-00



Description

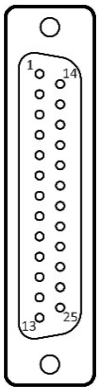
The 24V Digital Input (DIN) slot card has 16 sinking digital input channels with a 24V nominal signaling voltage and a sampling rate of 8 kHz. A high signal on the input reports a logic "TRUE" and the threshold is approximately 12V (see specifications for further detail). All inputs are protected against overvoltage (-15V through 60V) and are certified as suitable to be used in SIL3 rated functional safety systems. The nominal input impedance is 10 kΩ.

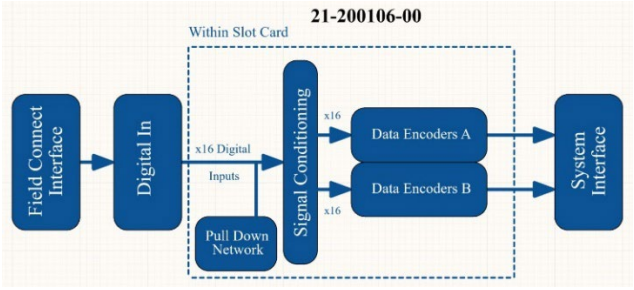


Specifications	
Electrical	
Slot Card Type	Digital In
No. of channels	16
Input type	Current Sinking
Nominal Input Signal Voltage	24V
Max Input Voltage (1 minute)	-15V to 60V
Nominal Input Impedance	10 kΩ (pull-down to GND)
Max Turn On Voltage (vih)	Vcc/2 + 2V
MinTurn Off Voltage (vil)	Vcc/2 - 1V
Max current ON (@24V) per pin	2.4 mA
Power consumption	0.02W
Unconnected inputs report as	OFF
Input Sampling Rate	8 kHz
Mechanical	
Dimensions	98 x 45 mm
Weight	19 g
Environmental	
Operating temp	0°C to 55°C
Storage temp	-40°C to 85°C
Relative Humidity, operating	10% to 90%, non-condensing
Certifications and Standards	
Complies with the requirements of the relevant standards: Cat 3 /PL e according to ISO 13849-1 SIL CL3 /SIL 3 according to IEC 62061 / IEC 61508	

Pinout Information, Standard FC

DSUB pin	Function	DSUB pin	Function
1	DI[1]	14	DI[9]
2	DI[2]	15	DI[10]
3	DI[3]	16	DI[11]
4	DI[4]	17	DI[12]
5	DI[5]	18	DI[13]
6	DI[6]	19	DI[14]
7	DI[7]	20	DI[15]
8	DI[8]	21	DI[16]
9	n/c	22	COM
10	n/c	23	COM
11	24V_SAFE	24	COM
12	24V_SAFE	25	COM
13	24V		





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