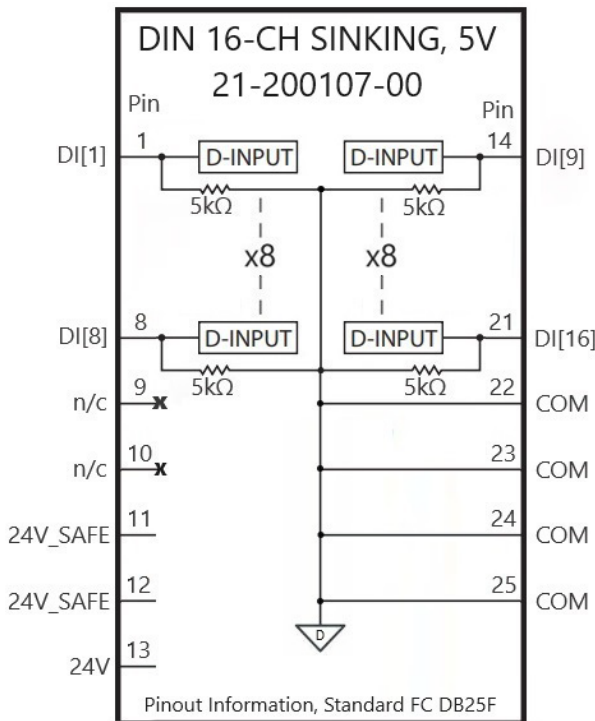
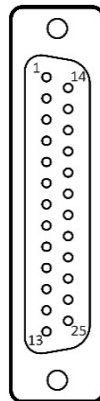


### Description

The 5V Digital Input (DIN) slot card has 16 sinking digital input channels with a 5V 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 2.5V (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 5 kΩ.



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		



### Specifications

#### Electrical

Slot Card Type	Digital In
No. of channels	16
Input type	Current Sinking
Nominal Input Signal Voltage	5V
Max Input Voltage ( 1 minute)	-15V to 60V
Nominal Input Impedance	5kΩ (pull-down to GND)
Max current guaranteed OFF	0.4 mA
Min current guaranteed ON	0.6 mA
Max current ON (@5V)	1.0 mA
Power consumption	0.02W
Unconnected inputs report as	OFF
Input Sampling Rate	8 kHz

#### Mechanical

Dimensions	98 x 45 mm
Weight	20 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

