

A.5 Specifications for the EM221 Digital Input Module

Table A-5 Specifications for EM221 24 VDC, 8 Digital Input Module

Description Order Number	EM221 24 VDC, 8 Input 6ES7221-1BF20-0XA0
Physical Size	
Dimensions (W x H x D)	46 x 80 x 62 mm
Weight	150 g
Power loss (dissipation)	2 W
Input Features	
Number of integrated inputs	8 inputs
Input type	Sink/Source (IEC Type 1 sink)
Input Voltage	
Maximum continuous permissible	30 VDC
Surge	35 VDC for 0.5 s
Rated value	24 VDC at 4 mA, nominal
Logic 1 signal (minimum)	15 VDC at 2.5 mA, minimum
Logic 0 signal (maximum)	5 VDC at 1 mA, maximum
Isolation	
Optical isolation (galvanic)	500 VAC for 1 minute
Isolation groups of	4 points
Input Delay Times	
Maximum	4.5 ms
Connection of 2-Wire Proximity Sensor (Bero)	
Permissible leakage current	1 mA, maximum
Cable Length	
Unshielded	300 m
Shielded	500 m
Number of Inputs ON Simultaneously	
40 ° C	8
55 ° C	8
Power Consumption	
From +5 VDC (from I/O bus)	30 mA

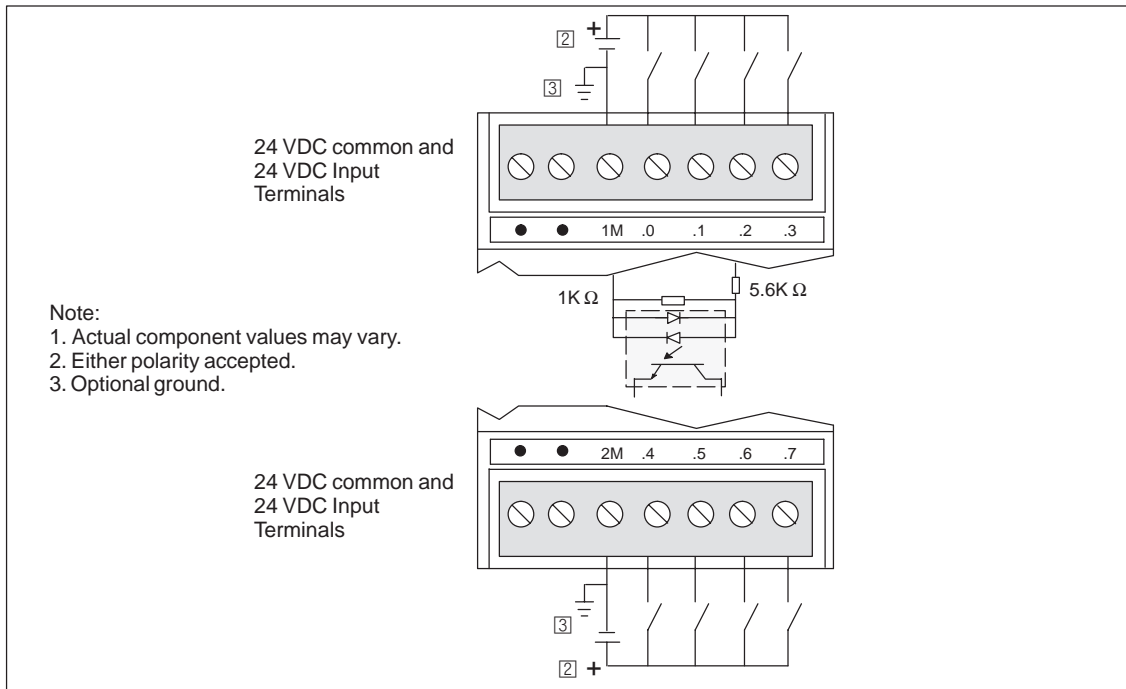


Figure A-8 Connector Terminal Identification for EM221 Digital Input 8 x 24 VDC