

MANUFACTURER DOCUMENT PACKAGE

Manufacturer's Manual

Reference package for procurement and maintenance review

PRODUCT BRAND

Siemens

PRODUCT MODEL

6ES7288-2DE16-0AA0

EM DE16 Digital Input Module

OFFICIAL SOURCE

S7-200 SMART System Manual, V2.8

A5E03822230-AL

Selected official Siemens pages follow this cover

A.3 Digital inputs and outputs expansion modules (EMs)

A.3.1 EM DE08 and EM DE16 digital input specifications

Table A-73 General specifications

Model	EM Digital 8 x Inputs (EM DE08)	EM Digital 16 x Inputs (EM DE16)
Article number	6ES7288-2DE08-0AA0	6ES7288-2DE16-0AA0
Dimensions W x H x D (mm)	45 x 100 x 81	45 x 100 x 81
Weight	141.4 grams	176 grams
Power dissipation	1.5 W	2.3 W
Current consumption (SM Bus)	105 mA	105 mA
Current consumption (24 V DC)	4 mA / input used	4 mA / input used

Table A-74 Digital inputs

Model	EM Digital 8 x Inputs (EM DE08)	EM Digital 16 x Inputs (EM DE16)
Number of inputs	8	16
Type	Sink/Source (IEC Type 1 sink)	Sink/Source (IEC Type 1 sink)
Rated voltage	24 V DC at 4 mA, nominal	24 V DC at 4 mA, nominal
Continuous permissible voltage	30 V DC, max.	30 V DC, max.
Surge voltage	35 V DC for 0.5 sec.	35 V DC for 0.5 sec.
Logic 1 signal (min.)	15 V DC at 2.5 mA	15 V DC at 2.5 mA
Logic 0 signal (max.)	5 V DC at 1 mA	5 V DC at 1 mA
Isolation (field side to logic)	500 V AC for 1 minute	500 V AC for 1 minute
Isolation groups	2	4
Filter times	0.2, 0.4, 0.8, 1.6, 3.2, 6.4, and 12.8 ms (selectable in groups of 4)	0.2, 0.4, 0.8, 1.6, 3.2, 6.4, and 12.8 ms (selectable in groups of 4)
Number of inputs on simultaneously	8	16
Cable length (max.), in meters	Shielded: 500 m normal inputs Unshielded: 300 m normal inputs	Shielded: 500 m normal inputs Unshielded: 300 m normal inputs

EM DE08 Digital 8 x Inputs (6ES7288-2DE08-0AA0)	EM DE16 Digital 16 x Inputs (6ES7288-2DE16-0AA0)
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Pin	X10	X11
1	Functional Earth	No connection
2	No connection	No connection
3	1M	2M
4	DI a.0	DI a.4
5	DI a.1	DI a.5
6	DI a.2	DI a.6
7	DI a.3	DI a.7

Pin	X10	X11	X12	X13
1	No connection	Functional Earth	No connection	No connection
2	No connection	No connection	No connection	No connection