



SIMATIC S7-200, DIGITAL INPUT EM 221,
FOR S7-22X CPU ONLY, 16DI, 24V DC,
SINK/SOURCE INPUT

Input current	
from backplane bus 5 V DC, max.	70 mA
Power losses	
Power loss, typ.	3 W
Digital inputs	
Number/binary inputs	16
m/p-reading	Yes
Input characteristic curve acc. to IEC 61131, Type 1	Yes
Input voltage	
Type of input voltage	DC
Rated value, DC	24 V
for signal "0"	0 to 5 V
for signal "1"	15 to 30 V
Input current	
for signal "1", typ.	4 mA
Input delay (for rated value of input voltage)	
for standard inputs	
at "0" to "1", max.	4.5 ms

Cable length	
Cable length, shielded, max.	500 m
Cable length unshielded, max.	300 m
Encoder	
Connectable encoders	
2-wire sensor	Yes
Permissible quiescent current (2-wire sensor), max.	1 mA
Galvanic isolation	
Galvanic isolation digital inputs	
Galvanic isolation digital inputs	Yes ; Optocoupler
between the channels, in groups of	4
Isolation	
Isolation checked with	500 V AC for 1 min.
Connection method	
Plug-in I/O terminals	Yes
Dimensions	
Width	71.2 mm
Height	80 mm
Depth	62 mm
Weight	
Weight, approx.	160 g
Status	Feb 25, 2013