



*** spare part *** SIMATIC S7-200, digital input EM 221, isolated 8 DI, 120/230 V AC

Input current	
from backplane bus 5 V DC, max.	30 mA
Power loss	
Power loss, typ.	3 W
Digital inputs	
Number of digital inputs	8
Input characteristic curve in accordance with IEC 61131, type 1	Yes
Input voltage	
<ul style="list-style-type: none"> Type of input voltage Rated value (AC) for signal "0" for signal "1" 	AC 230 V; 220/230 V AC (47 Hz to 63 Hz) up to 20 V AC 79V AC or more
Input current	
<ul style="list-style-type: none"> for signal "1", typ. 	2.5 mA
Input delay (for rated value of input voltage)	
for standard inputs	
— at "0" to "1", max.	15 ms
Cable length	
<ul style="list-style-type: none"> shielded, max. unshielded, max. 	500 m 300 m
Encoder	
Connectable encoders	
<ul style="list-style-type: none"> 2-wire sensor — permissible quiescent current (2-wire sensor), max. 	Yes 1 mA
Potential separation	
Potential separation digital inputs	
<ul style="list-style-type: none"> Potential separation digital inputs between the channels, in groups of 	Yes; Optocoupler 1; 8 groups
Connection method	
Plug-in I/O terminals	Yes
Dimensions	
Width	71.2 mm
Height	80 mm
Depth	62 mm
Weights	
Weight, approx.	160 g
Classifications	
	Version
	Classification

eClass	14	27-24-22-04
eClass	12	27-24-22-04
eClass	9.1	27-24-22-04
eClass	9	27-24-22-04
eClass	8	27-24-22-04
eClass	7.1	27-24-22-04
eClass	6	27-24-22-04
ETIM	10	EC001419
ETIM	9	EC001419
ETIM	8	EC001419
ETIM	7	EC001419
IDEA	4	3566
UNSPSC	15	32-15-17-05

Approvals / Certificates

General Product Approval

[Manufacturer Declaration](#)

[Miscellaneous](#)



[China RoHS](#)

[Manufacturer Declaration](#)

For use in hazardous locations

Maritime application

[FM](#)



[CCS \(China Classification Society\)](#)

last modified:

3/13/2026