

# SIEMENS

## Product data sheet

## 6ES7221-1BF22-0XA0



SIMATIC S7-200, DIGITAL INPUT EM 221,  
FOR S7-22X CPU ONLY, 8 DI, 24V DC,  
SINK/SOURCE INPUT

<b>Input current</b>	
from backplane bus 5 V DC, max.	30 mA
<b>Power losses</b>	
Power loss, typ.	2 W
<b>Digital inputs</b>	
Number/binary inputs	8
m/p-reading	Yes
<b>Input voltage</b>	
Type of input voltage	DC
Rated value, DC	24 V
for signal "0"	0 to 5 V
for signal "1"	15 to 30 V
<b>Input current</b>	
for signal "1", typ.	4 mA
<b>Input delay (for rated value of input voltage)</b>	

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
Connection method	
Plug-in I/O terminals	Yes
Dimensions	
Width	46 mm
Height	80 mm
Depth	62 mm
Weight	
Weight, approx.	150 g
Status	Jul 17, 2012