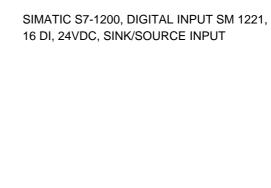
SIEMENS

Product data sheet

6ES7221-1BH32-0XB0



Supply voltage	
24 V DC	Yes
permissible range, lower limit (DC)	20.4 V
permissible range, upper limit (DC)	28.8 V
Input current	
from backplane bus 5 V DC, max.	130 mA
Digital inputs	
from load voltage L+ (without load), max.	4 mA; per channel
Output voltage	
Power supply to the transmitters	
present	Yes
Power losses	
Power loss, typ.	2.5 W
Digital inputs	
Number of digital inputs	16
In groups of	4
Input characteristic curve in accordance with IEC 61131, type 1	Yes
Number of simultaneously controllable inputs	

all mounting positions	
up to 40 °C, max.	16
horizontal installation	
up to 40 °C, max.	16
up to 50 °C, max.	16
vertical installation	
up to 40 °C, max.	16
Input voltage	
Type of input voltage	DC
Rated value, DC	24 V
for signal "0"	5 V DC at 1 mA
for signal "1"	15 VDC at 2.5 mA
Input current	
for signal "0", max. (permissible quiescent current)	1 mA
for signal "1", min.	2.5 mA
for signal "1", typ.	4 mA ; Typical
Input delay (for rated value of input voltage)	
for standard inputs	
Parameterizable	Yes; 0.2 ms, 0.4 ms, 0.8 ms, 1.6 ms, 3.2 ms, 6.4 ms and 12.8 ms, selectable in groups of four
for interrupt inputs	
Parameterizable	Yes
Cable length	
Cable length, shielded, max.	500 m
Cable length unshielded, max.	300 m
Digital outputs	
Number of digital outputs	0
Short-circuit protection	No
Interrupts/diagnostics/status information	
Alarms	
Alarms	Yes
Diagnostic alarm	Yes
Diagnostic messages	
Diagnostic functions	Yes
Monitoring the supply voltage	Yes
Diagnostics indication LED	
for status of the inputs	Yes
for maintenance	Yes

Status indicator digital input (green)	Yes	
Galvanic isolation		
Galvanic isolation digital inputs		
between the channels, in groups of	4	
Degree and class of protection		
IP20	Yes	
Standards, approvals, certificates		
CE mark	Yes	
CSA approval	Yes	
UL	Yes	
cULus	Yes	
RCM (former C-TICK)	Yes	
FM approval	Yes	
Marine approval		
Marine approval	Yes	
Climatic and mechanical conditions for storage and trans	port	
Climatic conditions for storage and transport		
Free fall		
Drop height, max. (in packaging)	0.3 m; five times, in dispatch package	
Temperature		
Permissible temperature range	-40 °C to +70 °C	
Air pressure acc. to IEC 60068-2-13		
Permissible air pressure	4000 / 000 l D	
reminosible all pressure	1080 to 660 hPa	
Relative humidity	1080 to 660 hPa	
	95 %	
Relative humidity		
Relative humidity Permissible range (without condensation) at 25 °C		
Relative humidity Permissible range (without condensation) at 25 °C Mechanical and climatic conditions during operation		
Relative humidity Permissible range (without condensation) at 25 °C Mechanical and climatic conditions during operation Climatic conditions in operation		
Relative humidity Permissible range (without condensation) at 25 °C Mechanical and climatic conditions during operation Climatic conditions in operation Temperature	95 %	
Relative humidity Permissible range (without condensation) at 25 °C Mechanical and climatic conditions during operation Climatic conditions in operation Temperature Min.	95 % -20 °C	
Relative humidity Permissible range (without condensation) at 25 °C Mechanical and climatic conditions during operation Climatic conditions in operation Temperature Min. max.	95 % -20 °C 60 °C	
Relative humidity Permissible range (without condensation) at 25 °C Mechanical and climatic conditions during operation Climatic conditions in operation Temperature Min. max. Permissible temperature change Connection method required front connector	95 % -20 °C 60 °C	
Relative humidity Permissible range (without condensation) at 25 °C Mechanical and climatic conditions during operation Climatic conditions in operation Temperature Min. max. Permissible temperature change Connection method required front connector Mechanics/material	95 % -20 °C 60 °C 5°C to 55°C, 3°C / minute	
Relative humidity Permissible range (without condensation) at 25 °C Mechanical and climatic conditions during operation Climatic conditions in operation Temperature Min. max. Permissible temperature change Connection method required front connector Mechanics/material Type of housing (front)	95 % -20 °C 60 °C 5°C to 55°C, 3°C / minute Yes	
Relative humidity Permissible range (without condensation) at 25 °C Mechanical and climatic conditions during operation Climatic conditions in operation Temperature Min. max. Permissible temperature change Connection method required front connector Mechanics/material Type of housing (front) Plastic	95 % -20 °C 60 °C 5°C to 55°C, 3°C / minute	
Relative humidity Permissible range (without condensation) at 25 °C Mechanical and climatic conditions during operation Climatic conditions in operation Temperature Min. max. Permissible temperature change Connection method required front connector Mechanics/material Type of housing (front)	95 % -20 °C 60 °C 5°C to 55°C, 3°C / minute Yes	

Height	100 mm
Depth	75 mm
Weights	
Weight, approx.	210 g
Status	Jun 19, 2014