

SIEMENS

Product data sheet

6ES7131-7RF00-0AB0


SIMATIC DP,
ELECT. SUBMODULE FOR ET 200ISP,
8 DI NAMUR

Digital inputs	
Number/binary inputs	8
Number of NAMUR inputs	8
Input voltage	
Type of input voltage	DC
Input delay (for rated value of input voltage)	
for standard inputs	
at "0" to "1", min.	2.8 μ s
at "0" to "1", max.	3.5 μ s
at "1" to "0", min.	2.8 ms
at "1" to "0", max.	3.5 μ s
Cable length	
Cable length, shielded, max.	500 m
Encoder	
Number of connectable encoders, max.	8

Connectable encoders	
NAMUR encoder	Yes
NAMUR encoder	
Input current, for signal "0", max.	1.2 mA
Input current, for signal "1", min.	2.1 mA
Interrupts/diagnostics/status information	
Alarms	
Diagnostic alarm	Yes ; Parameterizable
Hardware interrupt	No
Diagnostic messages	
Diagnostic functions	Yes
Diagnostic information readable	Yes
Short circuit	Yes ; R load < 150 ohms with NAMUR sensor/sensor and NAMUR changeover contact/sensor to DIN 19234
Diagnostics indication LED	
Group error SF (red)	Yes
Integrated Functions	
Frequency meter	Yes
Frequency measurement	Yes ; (Gate time) 50 ms; 200 ms; 1 s
Number of frequency meters	2
Counter	
Number of counter inputs	2 ; normal and periodic count function
Input frequency, max.	5 kHz ; with a cable length of 20 m: 5 kHz; with a cable length of 100 m: 1 kHz; with a cable length of 200 m: 500 Hz
Galvanic isolation	
Galvanic isolation digital inputs	
between the channels	No
between the channels and the backplane bus	Yes
Permissible potential difference	
between different circuits	60 V DC/30 V AC
Standards, approvals, certificates	
CE mark	Yes
Use in hazardous areas	

Type of protection acc. to EN 50020 (CENELEC)	II2 G (1) GD Ex ib[ia] IIC T4 and I M2 Ex ib[ia] I
Type of protection acc. to KEMA	04 ATEX 1248
Dimensions	
Width	30 mm
Height	129 mm
Depth	136.5 mm
Weight	
Weight, approx.	255 g
Status	Jul 17, 2012