

# SIEMENS

## Product data sheet

**6ES7138-4FA04-0AB0**


SIMATIC DP,  
ELECTRON. MODULE F. ET200S,  
4/8 F-DI PROFISAFE, 24V DC,  
30 MM WIDTH UP TO CATEGORY 4 (EN954-1)/ SIL3  
(62061) ALSO USEABLE IN PROFINET- NETWORK  
WITH IM151-3 HF

<b>Supply voltage</b>	
24 V DC	Yes
permissible range, lower limit (DC)	20.4 V
permissible range, upper limit (DC)	28.8 V
Reverse polarity protection	No
<b>Encoder supply</b>	
Number of outputs	2
Output voltage	min. L+ (-1.5 V)
Output current, rated value	300 mA
Output current, permissible range	0 to 300 mA
<b>Output current</b>	
Short-circuit protection	Yes ; Electronic (response threshold 0.7 A to 1.8 A)
<b>Power losses</b>	
Power loss, typ.	4 W
<b>Address area</b>	

<b>Occupied address area</b>	
Outputs	4 byte
Inputs	6 byte
<b>Digital inputs</b>	
Number/binary inputs	8 ; 8 single channel, 4 two-channel
Input characteristic curve acc. to IEC 61131, Type 1	Yes
Number of simultaneously controllable inputs	8
<b>Input voltage</b>	
Type of input voltage	DC
Rated value, DC	24 V
for signal "0"	-30 to +5 V
for signal "1"	15 to 30 V
<b>Input current</b>	
for signal "1", typ.	3.7 mA
<b>Input delay (for rated value of input voltage)</b>	
for standard inputs	
Parameterizable	Yes
at "0" to "1", min.	0.3 ms
at "0" to "1", max.	17 ms
at "1" to "0", min.	0.3 ms
at "1" to "0", max.	17 ms
<b>Cable length</b>	
Cable length, shielded, max.	200 m
Cable length unshielded, max.	200 m
<b>Encoder</b>	
<b>Connectable encoders</b>	
2-wire sensor	No
<b>Interrupts/diagnostics/status information</b>	
<b>Alarms</b>	
Diagnostic alarm	Yes
<b>Diagnostic messages</b>	
Diagnostic functions	Yes
Diagnostic information readable	Yes

Short circuit	Yes
<b>Diagnostics indication LED</b>	
Group error SF (red)	Yes
Status indicator digital input (green)	Yes
<b>Galvanic isolation</b>	
<b>Galvanic isolation digital inputs</b>	
between the channels	No
between the channels and the backplane bus	Yes
between the channels and the load voltage L+	No
<b>Permissible potential difference</b>	
between M internally and the inputs	75 VDC / 60 VAC
<b>Isolation</b>	
Isolation checked with	500 V DC
<b>Standards, approvals, certificates</b>	
<b>Highest safety class achievable in safety mode</b>	
acc. to EN 954	Cat. 3 (single-channel), Cat. 4 (two-channel)
acc. to IEC 61508	SIL 2 (single-channel), SIL 3 (two-channel)
<b>Dimensions</b>	
Width	30 mm
Height	81 mm
Depth	52 mm
<b>Weight</b>	
Weight, approx.	78 g
Status	Jul 17, 2012