

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

Supply voltage

Power supply / Input / Input voltage

24 V DC	Yes
permissible range, lower limit (DC)	20.4 V
permissible range, upper limit (DC)	28.8 V
Reverse polarity protection	No

Encoder supply

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

Sensor supply / Output current

Short-circuit protection	Yes ; Electronic (response threshold 0.7 A to 1.8 A)
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Power losses

Power loss, typ.	4 W
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Address area	
Occupied address area	
Outputs	4 byte
Inputs	6 byte
Digital inputs	
Number of digital inputs	8 ; 8 single channel, 4 two-channel
Number of simultaneously controllable inputs	8
Input characteristic curve acc. to IEC 1131, Type 1	Yes
Input voltage	
Rated value, DC	24 V
for signal "0"	-30 to +5 V
for signal "1"	15 to 30 V
Input current	
for signal "1", typ.	3.7 mA
Input delay (for rated value of input voltage)	
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
Cable length	
Cable length, shielded, max.	200 m
Cable length unshielded, max.	200 m
Encoder	
Connectable encoders	
2-wire BEROS	No
Interrupts/diagnostics/status information	
Alarms	
Diagnostic alarm	Yes
Diagnoses	
Diagnostic functions	Yes
Diagnostic information readable	Yes

Short circuit	Yes
Diagnostics indication LED	
Group error SF (red)	Yes
Status indicator digital input (green)	Yes
Galvanic isolation	
Galvanic isolation digital inputs	
between the channels	No
between the channels and the backplane bus	Yes
between the channels and the load voltage L+	No
Permissible potential difference	
between M internally and the inputs	75 VDC / 60 VAC
Isolation	
Isolation checked with	500 V DC
Standards, approvals, certificates	
Highest safety class achievable in safety mode	
acc. to EN 954	Cat. 3 (single-channel), Cat. 4 (two-channel)
acc. to IEC 61508	SIL 2 (single-channel), SIL 3 (two-channel)
Dimensions and weight	
Dimensions	
Width	30 mm
Height	81 mm
Depth	52 mm
Weight	
Weight, approx.	78 g
Status	Jul 4, 2011