

SIEMENS

Product data sheet

6ES7148-3FA00-0XB0


SIMATIC DP,
ELECTRON. MODULE FOR ET200ECO,
4/8 F-DI PROFISAFE 24V DC,
UP TO CATEGORY 4 (EN954-1) / SIL 3 (IEC61508)

FH technology	
Module for failsafe applications	Yes
Supply voltage	
Rated value (DC)	24 V
Reverse polarity protection	No
Input current	
from supply voltage 1L+, max.	100 mA
Encoder supply	
Number of outputs	2
Output voltage	min. L+ (-1.5 V)
Output current, rated value	300 mA
Output current	
Short-circuit protection	Yes
Power losses	
Power loss, typ.	3 W

Digital inputs	
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 ; 8 single channel, 4 two-channel
Input voltage	
Type of input voltage	DC
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
Cable length	
Cable length unshielded, max.	30 m
Encoder	
Connectable encoders	
2-wire sensor	No
Interfaces	
PROFIBUS DP	
Transmission rate, max.	12 Mbit/s
Protocols	
PROFIBUS DP protocol	Yes
Interrupts/diagnostics/status information	
Diagnostics indication LED	
Group error SF (red)	Yes
Status indicator digital input (green)	Yes
Channel error indicator F (red)	No
Galvanic isolation	
between PROFIBUS DP and all other circuit components	Yes
Galvanic isolation digital inputs	
between the channels	No
Permissible potential difference	
between different circuits	75 VDC / 60 VAC
Isolation	

Isolation checked with	500 V AC for 1 min.
Standards, approvals, certificates	
Highest safety class achievable in safety mode	
acc. to IEC 61508	SIL 2 (single-channel), SIL 3 (two-channel)
Dimensions	
Width	60 mm
Height	210 mm
Depth	28 mm
Weight	
Weight, approx.	220 g
Status	Jul 17, 2012