



SIMATIC, electronic module for ET200iSP, 4 DO, 17.4 V DC/27 mA "H"-shutdown, Ex ib (ia Ga) IIC T4 Gb, Ex ib [ia IIIC Da] IIC T4 Gb, Ex ib [ia] I Mb

General information	
Product brand name	SIMATIC
Product family	ET 200iSP
Product category	Digital module output
Product type designation	4DQ 17.4 V DC/27 mA
HW functional status	7
Firmware version	V3.0.0
Product version	SHUT DOWN "H"
Installation type/mounting	
Rack mounting	No
Front mounting	Yes
Rail mounting	Yes
Wall mounting/direct mounting	No
Supply voltage	
Type of supply voltage	DC
Input current	
Current consumption, typ.	260 mA
from load voltage (power bus), max.	300 mA
Power loss	
Power loss, typ.	2.1 W
Address area	
Address space per module	
• Address space per module, max.	2 byte
Hardware configuration	
Fieldbus connection via separate transceiver	Yes
Digital outputs	
Type of digital output	Transistor
Number of digital outputs	4; additionally 1 intrinsically-safe input for H shutdown
Short-circuit protection	Yes
No-load voltage U_{ao} (DC)	17.4 V
Internal resistor R_i	150 Ω
Trend key points E	
• Voltage U_e (DC)	13.3 V
• Current I_e	27 mA
Output voltage	
• Type of output voltage	DC
• permissible voltage at output, min.	0 V
• permissible voltage at output, max.	17.4 V
Output current	

• for signal "1" rated value	0.027 A
Output delay with resistive load	
• "0" to "1", max.	2 ms
• "1" to "0", max.	1.5 ms
Parallel switching of two outputs	
• for uprating	Yes
Switching frequency	
• with resistive load, max.	100 Hz
• with inductive load, max.	2 Hz
Cable length	
• shielded, max.	500 m
• unshielded, max.	500 m
Interfaces	
Number of PROFINET interfaces	0
Number of RS 485 interfaces	0
Protocols	
Supports protocol for PROFINET IO	No
PROFIsafe	No
PROFIBUS	No
Interrupts/diagnostics/status information	
Diagnostics function	Yes
Alarms	
• Diagnostic alarm	Yes; Parameterizable
• Hardware interrupt	No
Diagnoses	
• Diagnostic information readable	Yes
• Wire-break	Yes
• Short-circuit	Yes
Diagnostics indication LED	
• Group error SF (red)	Yes
• Status indicator digital output (green)	Yes
Ex(i) characteristics	
Module for Ex(i) protection	Yes; for more Co/Lo combinations, see certificate IECEx KEM 05.0011
maximum values for connecting terminals for gas group IIC	
• Uo (no-load voltage), max.	19.4 V
• Io (short-circuit current), max.	132 mA
• Po (power output), max.	0.64 W
• Co (permissible external capacity), max.	0.23 µF
• Lo (permissible external inductivity), max.	1.9 mH
• Ui (intrinsically safe input voltage), max.	28 V; switch input circuit
• Pi (intrinsically safe input power), max.	1.2 W; switch input circuit
• Ci (internal capacity), max.	3 nF; switch input circuit
Potential separation	
Potential separation digital outputs	
• between the channels	No
• between the channels and backplane bus	Yes
• Between the channels and load voltage L+	Yes
Degree and class of protection	
IP degree of protection	IP30
Standards, approvals, certificates	
CE mark	CE 0344
UKCA mark	DEKRA 21UKEX0085 Importer UK: Siemens plc Manchester M20 2UR
cULus	LISTED E334384
FM approval	CLASSIFIED 3025852
Suitable for safety functions	No
INMETRO certificate	UL-BR 12.0073
reference designation according to IEC 81346-2 (2009)	K
Use in hazardous areas	

- ATEX marking
- ATEX certificate
- IECEx
- CCC Ex
- EAC Ex
- FM marking
- Explosion protection category for gas
- Explosion protection category for dust
- associated equipment (Ex ia)
- associated equipment (Ex ib)

II 2 G (1) G Ex ib [ia Ga] IIC T4 Gb II 2 G (1) D Ex ib [ia IIIC Da] IIC T4 Gb I M2 Ex ib [ia] I Mb

KEMA 04 ATEX 1249

IECEX KEM 05.0011

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PB Ex ib [ia] I Mb 1Ex ib [ia Ga] IIC T4 Gb [Ex ia Da] IIIC

Class I, Zone 1 AEx ib [ia] IIC T4 Ex ib IIC T4 NI, Class I, DIV.2, GP. A,B,C,D T4 AIS, Class I, DIV.1, GP. A,B,C,D T4 DIP Class II, III, GP. E,F,G

ATEX gas explosion protection, Zone 1

ATEX dust explosion protection, Zone 21 always install in corresponding enclosure

Yes

Yes

Marine approval

- Germanischer Lloyd (GL)
- American Bureau of Shipping (ABS)
- Bureau Veritas (BV)
- Det Norske Veritas (DNV)

Yes

Yes

Yes

Yes

Connection method

Design of electrical connection

Screw/spring-type terminal

Dimensions

Width

30 mm

Height

129 mm

Depth

136.5 mm

Weights

Weight, approx.

255 g

Classifications

	Version	Classification
eClass	14	27-24-26-04
eClass	12	27-24-26-04
eClass	9.1	27-24-26-04
eClass	9	27-24-26-04
eClass	8	27-24-26-04
eClass	7.1	27-24-26-04
eClass	6	27-24-26-04
ETIM	10	EC001599
ETIM	9	EC001599
ETIM	8	EC001599
ETIM	7	EC001599
IDEA	4	3566
UNSPSC	15	32-15-17-05

Approvals / Certificates

General Product Approval



[Miscellaneous](#)

[China RoHS](#)

[KC](#)



For use in hazardous locations



[FM](#)



[Miscellaneous](#)



For use in hazardous locations

Maritime application

[CCC-Ex](#)



[Miscellaneous](#)

[Miscellaneous](#)



Maritime application

Environment



[NK / Nippon Kaiji Ky-
okai](#)



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