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Data sheet 6ES7152-1AA00-0AB0



SIMATIC interface module IM152-1DP for ET200iSP, PROFIBUS connection standard, and redundant operation, Ex ib IIC T4 Gb, Ex ib I Mb

General information	
Product type designation	IM 152-1
Vendor identification (VendorID)	8110H
Product function	
● Isochronous mode	No
Installation type/mounting	
Rack mounting	No
Front mounting	Yes
Rail mounting	Yes
Wall mounting/direct mounting	Yes
Supply voltage	
Type of supply voltage	DC
permissible range, lower limit (DC)	20.4 V
permissible range, upper limit (DC)	28.8 V
Input current	
from load voltage (power bus), max.	30 mA
Power loss	
Power loss, typ.	0.5 W
Hardware configuration	
Fieldbus connection via separate transceiver	No
Time stamp	
Description	for each digital input, digital input module, entire ET 200iSP
Accuracy	20 ms
Number of stampable digital inputs, max.	64; for accuracy class 20 ms
Time format	RFC 1119 Internet (ISP)
Time resolution	1 ms
Time interval for transmitting the message buffer if a message is present	1 000 ms
Time stamp on signal change	rising / falling edge as signal entering or exiting
IO-Link	
IO-Link master	No
Interfaces	
Interfaces/bus type	RS 485
Transmission rate, max.	1.5 Mbit/s; 9,6 / 19,2 / 45,45 / 93,75 / 187,5 / 500 kbit/s; 1,5 Mbit/s
Protocols	
Supports protocol for PROFINET IO	No
PROFIsafe	No
PROFIBUS	Yes
PROFIBUS DP	Yes

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EtherNet/IP	No
PROFIBUS DP	
Services	
— SYNC capability	Yes
— FREEZE capability	Yes
— Direct data exchange (slave-to-slave communication)	Yes
Further protocols	
● CAN	No
● DeviceNet	No
● Foundation Fieldbus	No
● MODBUS	No
● other bus systems	No
Communication functions	
Wireless communication	
● supported standards	
— Radio standard WLAN 802.11	No
Interrupts/diagnostics/status information	
Alarms	Yes
Diagnostics function	Yes
Alarms	
● acyclic function, interrupts	Yes
● acyclic function, parameters	Yes
Diagnostics indication LED	
● Bus fault BF (red)	Yes
● Group error SF (red)	Yes
● Monitoring 24 V voltage supply ON (green)	Yes
Ex(i) characteristics	
maximum values for connecting terminals for gas group IIC	
● Uo (no-load voltage), max.	3.9 V
● Io (short-circuit current), max.	136 mA
● Po (power output), max.	132 mW
● Ui (intrinsically safe input voltage), max.	4.2 V
Potential separation	
between electronic block and PROFIBUS DP	Yes
between supply voltage and electronics	Yes
Degree and class of protection	
IP degree of protection	IP30
Standards, approvals, certificates	
CE mark	CE 0344
UKCA mark	DEKRA 21UKEX0029 Importer UK: Siemens plc Manchester M20 2UR
cULus	LISTED E334384
FM approval	CLASSIFIED 3025852
Suitable for safety functions	No
INMETRO certificate	UL-BR 12.0067
reference designation according to IEC 81346-2 (2009)	K
Use in hazardous areas	
● ATEX marking	II 2 G Ex ib IIC T4 Gb I M2 Ex ib I Mb
● ATEX certificate	KEMA 04 ATEX 1243
● IECEx	IECEx KEM 05.0005
● CCC Ex	2020322316002940
● EAC Ex	1Ex ib IIC T4 Gb PB Ex ib I Mb
● FM marking	Class I, Zone 1 AEx ib IIC T4 Ex ib IIC T4 NI, Class I, Division 2, GP. A,B,C,D T4 DIP, Class II, III, GP. E,F,G
● Explosion protection category for gas	ATEX gas explosion protection, Zone 1
● Explosion protection category for dust	No
● associated equipment (Ex ia)	No
● associated equipment (Ex ib)	Yes
Marine approval	

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

Dimensions

Width	30 mm
Height	129 mm
Depth	136.5 mm

Weights

Weight, approx.	245 g

Classifications

	Version	Classification
eClass	16	27-24-26-08
eClass	14	27-24-26-08
eClass	12	27-24-26-08
eClass	9.1	27-24-26-08
eClass	9	27-24-26-08
eClass	8	27-24-26-08
eClass	7.1	27-24-26-08
eClass	6	27-24-26-08
ETIM	10	EC001604
ETIM	9	EC001604
ETIM	8	EC001604
ETIM	7	EC001604
IDEA	4	3564
UNSPSC	15	32-15-17-05

Approvals / Certificates

General Product Approval

Miscellaneous

China RoHS

General Product Approval	For use in hazardous locations				
Manufacturer Declaration			FM		Miscellaneous

For use in hazardous locations				Maritime application	
	CCC-Ex		Miscellaneous		

Maritime application					Environment
		NK / Nippon Kaiji Kyokai		KR (Korean Register of Shipping)	

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