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Data sheet 6ES7332-5TB00-0AB0



********** Replacement part ********* SIMATIC DP, HART analog output, SM 332, 2 AO, 0/4 - 20 mA HART, to HART rev. 5.0, for ET200M with IM 153-2, 1 x 20-pole

Supply voltage	
Load voltage L+	
● Rated value (DC)	24 V
● Reverse polarity protection	Yes
Input current	
from load voltage L+ (without load), max.	150 mA
from backplane bus 5 V DC, max.	100 mA
Power loss	
Power loss, typ.	3.5 W
Analog outputs	
Number of analog outputs	2
Voltage output, short-circuit protection	Yes
Current output, no-load voltage, max.	19 V
Cycle time (all channels) max.	5 ms
Output ranges, current	
● 0 to 20 mA	Yes
● 4 mA to 20 mA	Yes
Connection of actuators	
● for current output two-wire connection	Yes
Load impedance (in rated range of output)	
● with current outputs, max.	650 Ω
● with current outputs, inductive load, max.	7.5 mH
Destruction limits against externally applied voltages and currents	
● Voltages at the outputs towards MANA	max. 17 V / -0.5 V
● Current, max.	60 mA / -1 A
Cable length	
● shielded, max.	400 m
Analog value generation for the outputs	
Integration and conversion time/resolution per channel	
● Resolution with overrange (bit including sign), max.	12 bit; Output value; 8 bit (+ sign) read back value
● Conversion time (per channel)	40 ms
Settling time	
● for resistive load	2.5 ms
● for capacitive load	4 ms
● for inductive load	2.5 ms
Errors/accuracies	
Operational error limit in overall temperature range	
● Current, relative to output range, (+/-)	0.55 %
Basic error limit (operational limit at 25 °C)	

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● Current, relative to output range, (+/-)	0.15 %
Interrupts/diagnostics/status information	
Diagnostics function	Yes; Parameterizable
Substitute values connectable	Yes; Parameterizable
Alarms	
● Diagnostic alarm	Yes; Parameterizable
Diagnoses	
● Overrange	Yes
● Wire break	Yes; as of output value > 0.5 mA
● Wire-break in actuator cable	Yes
● HART communication active	Yes; green LED (H)
Diagnostics indication LED	
● Group error SF (red)	Yes; Additional group message per channel
● Channel fault indicator F (red)	Yes; per channel
Ex(i) characteristics	
Module for Ex(i) protection	Yes
maximum values for connecting terminals for gas group IIC	
● Uo (no-load voltage), max.	19 V
● Io (short-circuit current), max.	66 mA
● Po (power output), max.	506 mW
● Co (permissible external capacity), max.	230 nF
● Lo (permissible external inductivity), max.	7.5 mH
● Um (voltage at non-intrinsically safe connecting terminals), max.	60 V; DC
Potential separation	
Potential separation analog outputs	
● between the channels	Yes
● between the channels and backplane bus	Yes
● Between the channels and load voltage L+	Yes
Permissible potential difference	
between the outputs (UCM)	60 V DC/30 V AC
between M internally and the outputs	60 V DC/30 V AC
Standards, approvals, certificates	
Use in hazardous areas	
● ATEX marking	II3 (2) G Eex nA [ib] IIC T4
● ATEX certificate	97 ATEX 2359 X
● FM marking	Class I, Division 2, Group A, B, C, D T4; Class I, Zone 2, Group IIC T4
Ambient conditions	
Ambient temperature during operation	
● max.	60 °C
Dimensions	
Width	40 mm
Height	125 mm
Depth	120 mm
Weights	
Weight, approx.	280 g

Classifications

	Version	Classification
eClass	16	27-24-26-01
eClass	14	27-24-26-01
eClass	12	27-24-26-01
eClass	9.1	27-24-26-01
eClass	9	27-24-26-01
eClass	8	27-24-26-01
eClass	7.1	27-24-26-01
eClass	6	27-24-26-01
ETIM	10	EC001596

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ETIM	9	EC001596
ETIM	8	EC001596
ETIM	7	EC001596
IDEA	4	3562
UNSPSC	15	32-15-17-05

Approvals / Certificates

General Product Approval

Manufacturer Declaration | Miscellaneous








General Product Approval

China RoHS | Manufacturer Declaration | Miscellaneous

For use in hazardous locations



FM


Maritime application



NK / Nippon Kaiji Kyokai



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