## **Data sheet**

6ES7332-5RD00-0AB0



SIMATIC S7, analog output SM 332, isolated, 4 AA; 0/4 to 20 mA, 20-pole, for signals from the hazardous area, diagnostics-capable, PTB tested  $\,$ 

Supply voltage	
Load voltage L+	
Rated value (DC)	24 V
<ul> <li>Reverse polarity protection</li> </ul>	Yes
Input current	
from load voltage L+ (without load), max.	200 mA
from backplane bus 5 V DC, max.	80 mA
Power loss	
Power loss, typ.	4 W
Analog outputs	
Number of analog outputs	4
Voltage output, short-circuit protection	Yes
Voltage output, short-circuit current, max.	70 mA
Current output, no-load voltage, max.	14 V
Output ranges, current	
• 0 to 20 mA	Yes
• 4 mA to 20 mA	Yes
Load impedance (in rated range of output)	
with current outputs, max.	500 Ω
Cable length	
shielded, max.	200 m
Analog value generation for the outputs	
Integration and conversion time/resolution per channel	
Resolution with overrange (bit including sign), max.	15 bit
Errors/accuracies	
Operational error limit in overall temperature range	
Current, relative to output range, (+/-)	0.55 %
Basic error limit (operational limit at 25 °C)	
Current, relative to output range, (+/-)	0.2 %
Interrupts/diagnostics/status information	
Diagnostics function	Yes
Diagnoses	
<ul><li>Overrange</li></ul>	Yes
Wire-break in actuator cable	Yes
Diagnostics indication LED	
Group error SF (red)	Yes
Channel fault indicator F (red)	Yes
Ex(i) characteristics	
Module for Ex(i) protection	Yes

maximum values for connecting terminals for gas group IIC	
<ul> <li>Uo (no-load voltage), max.</li> </ul>	14 V
<ul> <li>lo (short-circuit current), max.</li> </ul>	70 mA
<ul><li>Po (power output), max.</li></ul>	440 mW
<ul> <li>Co (permissible external capacity), max.</li> </ul>	850 nF
<ul> <li>Lo (permissible external inductivity), max.</li> </ul>	6.6 mH
Potential separation	
Potential separation analog outputs	
<ul> <li>between the channels</li> </ul>	Yes
<ul> <li>between the channels and backplane bus</li> </ul>	Yes
<ul> <li>Between the channels and load voltage L+</li> </ul>	Yes
Standards, approvals, certificates	
Use in hazardous areas	
ATEX marking	[EEx ib] IIC
<ul> <li>► FM marking</li> </ul>	Class I, Division 2, Group A, B, C, D T4
<ul> <li>Test number PTB</li> </ul>	Ex-96.D.2026X
Ambient conditions	
Ambient temperature during operation	
• max.	60 °C
connection method / header	
required front connector	20-pin
Dimensions	
Width	40 mm
Height	125 mm
Depth	120 mm
Weights	
Weight, approx.	280 g