

# SIEMENS

## Product data sheet

**6ES7332-5RD00-0AB0**


SIMATIC S7, ANALOG OUTPUT SM 332,  
OPTICALLY ISOLATED, 4 AO,  
0/4 UP TO 20 MA, 20 PIN,  
FOR SIGNALS FROM HAZARDOUS AREAS  
CAPABLE OF DIANOST.,  
PTB-TESTED

<b>Supply voltage</b>	
Load voltage L+	
Rated value (DC)	24 V
<b>Input current</b>	
from load voltage L+ (without load), max.	180 mA
from backplane bus 5 V DC, max.	80 mA
<b>Power losses</b>	
Power loss, typ.	4 W
<b>Analog outputs</b>	
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
<b>Output ranges, current</b>	
0 to 20 mA	Yes

4 to 20 mA	Yes
<b>Connection of actuators</b>	
for current output 2-conductor connection	Yes
<b>Load impedance (in rated range of output)</b>	
with current outputs, max.	500 $\Omega$
<b>Cable length</b>	
Cable length, shielded, max.	200 m
<b>Analog value creation</b>	
<b>Integrations and conversion time/ resolution per channel</b>	
Resolution with overrange (bit including sign), max.	15 bit
Basic conversion time, ms	2.5 ms
<b>Errors/accuracies</b>	
<b>Operational limit in overall temperature range</b>	
Current, relative to output area	+/- 0,55 %
<b>Basic error limit (operational limit at 25 °C)</b>	
Current, relative to output area	+/- 0,2 %
<b>Interrupts/diagnostics/status information</b>	
<b>Diagnostic messages</b>	
Diagnostic functions	Yes
Diagnostic information readable	Yes
Overrange	Yes
Wire break in actuator cable	Yes
Group error	Yes
<b>Diagnostics indication LED</b>	
Short circuit per channel (red)	Yes
Short-circuit group error (red)	Yes
<b>Ex(i) characteristics</b>	
Module for Ex(i) protection	Yes
<b>Galvanic isolation</b>	
<b>Galvanic isolation analog outputs</b>	
Galvanic isolation analog outputs	Yes
<b>Permissible potential difference</b>	

between outputs and MANA (UCM)	60 V DC/30 V AC when used in the hazardous area; 400 V DC/250 V AC when used in NON-hazardous area
between the outputs (UCM)	60 V DC/30 V AC when used in the hazardous area; 400 V DC/250 V AC when used in NON-hazardous area
<b>Standards, approvals, certificates</b>	
<b>Use in hazardous areas</b>	
Type of protection acc. to EN 50020 (CENELEC)	[EEx ib] IIC
Type of protection acc. to FM	Class I, Division 2, Group A, B, C, D T4
Test number PTB	Ex-96.D.2026X
<b>Ambient conditions</b>	
<b>Operating temperature</b>	
max.	60 °C
<b>Connection method</b>	
required front connector	20-pin
<b>Weight</b>	
Weight, approx.	280 g
Status	Jul 17, 2012