



Figure similar

SIMATIC S7, digital output SM 322, isolated, 4 DO, 15 V / 20 mA 1 x 20-pole, for signals from the hazardous area, diagnostics-capable, PTB tested

Supply voltage	
Load voltage L+	
<ul style="list-style-type: none"> Rated value (DC) Reverse polarity protection 	24 V Yes
Input current	
from load voltage L+ (without load), max.	160 mA
from backplane bus 5 V DC, max.	85 mA
Power loss	
Power loss, typ.	3 W
Digital outputs	
Number of digital outputs	4
Short-circuit protection	Yes; Electronic
<ul style="list-style-type: none"> Response threshold, typ. 	Output current with short-circuit protection, min. 20.5 mA + 10 %
Load resistance range	
<ul style="list-style-type: none"> upper limit 	200 Ω; Two-wire connection
Output voltage	
<ul style="list-style-type: none"> Rated value (DC) 	15 V
Output current	
<ul style="list-style-type: none"> for signal "1" permissible range for 0 to 60 °C, max. 	20 mA; ±10 %
Switching frequency	
<ul style="list-style-type: none"> with resistive load, max. 	100 Hz
Cable length	
<ul style="list-style-type: none"> unshielded, max. 	200 m
Interrupts/diagnostics/status information	
Diagnostics function	Yes
Diagnoses	
<ul style="list-style-type: none"> Diagnostic information readable Short-circuit 	Yes Yes
Diagnostics indication LED	
<ul style="list-style-type: none"> Group error SF (red) Status indicator digital output (green) Channel fault indicator F (red) 	Yes Yes Yes
Ex(i) characteristics	
Module for Ex(i) protection	Yes
maximum values for connecting terminals for gas group IIC	
<ul style="list-style-type: none"> U_o (no-load voltage), max. 	15.75 V

- I_o (short-circuit current), max. 85 mA
- P_o (power output), max. 335 mW
- C_o (permissible external capacity), max. 500 nF
- L_o (permissible external inductivity), max. 5 mH

Potential separation

Potential separation digital outputs

- between the channels Yes; 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 channels, in groups of 1
- between the channels and backplane bus Yes; 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 channels and load voltage L+ Yes; 60 V DC/30 V AC when used in the hazardous area; 400 V DC/250 V AC when used in NON-hazardous area

Standards, approvals, certificates

Use in hazardous areas

- Test number PTB Ex-96.D.2102X

Ambient conditions

Ambient temperature during operation

- max. 60 °C

Connection method

required front connector 20-pin

Dimensions

Width 40 mm
 Height 125 mm
 Depth 120 mm

Weights

Weight, approx. 230 g

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