



Figure similar

SIMATIC S7, digital output SM 322, isolated, 4 DO, 24 V DC, 10 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) 	24 V
<ul style="list-style-type: none"> Reverse polarity protection 	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. 10 mA + 10 %
Load resistance range	
<ul style="list-style-type: none"> upper limit 	390 Ω; Two-wire connection
Output voltage	
<ul style="list-style-type: none"> Rated value (DC) 	24 V
Output current	
<ul style="list-style-type: none"> for signal "1" permissible range for 0 to 60 °C, max. 	10 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 	Yes
<ul style="list-style-type: none"> Short-circuit 	Yes
Diagnostics indication LED	
<ul style="list-style-type: none"> Group error SF (red) 	Yes
<ul style="list-style-type: none"> Status indicator digital output (green) 	Yes
<ul style="list-style-type: none"> 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 style="list-style-type: none"> U_o (no-load voltage), max. 	25.2 V
<ul style="list-style-type: none"> I_o (short-circuit current), max. 	70 mA
<ul style="list-style-type: none"> P_o (power output), max. 	440 mW

- Co (permissible external capacity), max. 90 nF
- Lo (permissible external inductivity), max. 6.7 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	
• ATEX marking	[EEx ib] IIC
• FM marking	AIS CL.1, DIV 1, GP A, B, C, D; CL.I, DIV 2, GP A, B, C, D T4
• Test number PTB	Ex-96.D.2093X

Ambient conditions

Ambient temperature during operation	
• max.	60 °C

connection method / header

required front connector	20-pin
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Dimensions

Width	40 mm
Height	125 mm
Depth	120 mm

Weights

Weight, approx.	230 g
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last modified: 8/24/2021 