

Input current	
From load voltage L+ (no load), typ.	280 mA
Power loss	
Power loss, typ.	3.4 W
Digital outputs	
Number of digital outputs	2; simultaneously controllable
Short-circuit protection	Yes
• Response threshold, typ.	> 25 mA
No-load voltage U _{ao} (DC)	25 V
Internal resistor R _i	630 Ω
Trend key points E	
• Voltage U _e (DC)	8.4 V
• Current I _e	25 mA; one output; 50 mA (outputs connected in parallel)
Output current	
• for signal "0" residual current, max.	25 µA
Output delay with resistive load	
• "0" to "1", max.	2 ms
• "1" to "0", max.	1.5 ms
Parallel switching of two outputs	
• for uprating	Yes
• for redundant control of a load	Yes
Switching frequency	
• with resistive load, max.	100 Hz
• with inductive load, max.	2 Hz
Cable length	
• shielded, max.	200 m
• unshielded, max.	200 m
Interrupts/diagnostics/status information	
Diagnostics function	Yes; Diagnostic information readable
Alarms	
• Diagnostic alarm	Yes; Parameterizable
• Hardware interrupt	No
Diagnostics indication LED	
• Group error SF (red)	Yes
• Status indicator digital output (green)	Yes

Parameter	
Diagnostics wire break	$R > 250 \text{ k}\Omega$, $I < 100 \text{ }\mu\text{A}$
Diagnostics short-circuit	$R < 80 \text{ }\Omega$ (one output), $R < 40 \text{ }\Omega$ (outputs connected in parallel)
Potential separation	
between load voltage and backplane bus	Yes
Potential separation digital outputs	
• between the channels	No
• between the channels and backplane bus	Yes
• Between the channels and load voltage L+	Yes
Permissible potential difference	
between different circuits	60 V DC/30 V AC
Isolation	
tested with	
• Channels against backplane bus and load voltage L+	500 V AC
• Load voltage L+ against backplane bus	500 V AC
Standards, approvals, certificates	
Use in hazardous areas	
• Type of protection acc. to EN 50020 (CENELEC)	II2(1)G EEx ib[ia] IIC T4; $T_u = -20 \text{ }^{\circ}\text{C}$ to $+60 \text{ }^{\circ}\text{C}$ (module); II2 G EEx ia IIC (input; ($T_u = +60 \text{ }^{\circ}\text{C}$ for horizontal mounting)
• Type of protection acc. to FM	Available soon: FM 3611: Class I, Division 2, Group A-D, Class I, Zone 2 or FM 3610: Class I, Zone 1, $T_u = -20 \text{ }^{\circ}\text{C}$ to $+60 \text{ }^{\circ}\text{C}$
Dimensions	
Width	30 mm
Height	81 mm
Depth	76 mm
Weights	
Weight, approx.	130 g
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