Data sheet

6ES7222-1HH32-0XB0



SIMATIC S7-1200, Digital output SM 1222, 16 DO, relay 2 A

Product type designation Supply voltage permissible range, lower limit (DC) permissible range, upper limit (DC) permissible range, upper limit (DC) permissible range, upper limit (DC) possible ran	General information	
permissible range, lower limit (DC) permissible range, upper limit		SM 1222, DQ 16x relay/2 A
permissible range, lower limit (DC) permissible range, upper limit	Supply voltage	
permissible range, upper limit (DC) Input current from backplane bus 5 V DC, max. 135 mA Digital outputs • from load voltage L+, max. 11 mA/relay coil Power loss. Power loss, typ. Digital outputs 16 • in groups of 1 No; to be provided externally Switching capacity of the outputs • rated value (DC) • Rated value (DC) • Rated value (AC) Output current • for signal "1" rated value • "0" to "1", max. • "1" to "0", max. 10 ms Total current of the outputs (per group) horizontal installation — up to 50 °C, max. Relay outputs • Number of perating cycles, max. Power loss, V DC 10 put milding and the side of the		20.4 V
Input current from backplane bus 5 V DC, max. Digital outputs • from load voltage L+, max. 11 mA/relay coil Power loss Power loss, typ. Digital outputs Number of digital outputs • in groups of Short-circuit protection No; to be provided externally Switching capacity of the outputs • with resistive load, max. • on lamp load, max. 2 A • on lamp load, max. 2 A Output voltage • Rated value (DC) • Rated value (CC) • Rated value (AC) Output delay with resistive load • "0" to "1", max. 10 ms • "1" to "0", max. 10 ms Total current of the outputs (per group) horizontal installation — up to 50 °C, max. Relay outputs • Number of relay outputs • Number of operating cycles, max. mechanically 10 million, at rated load voltage 100 000 Switching capacity of contacts — with inductive load, max. 2 A 2 A 0 Output delay with resistive oad • "0" to "1", max. 10 ms 10 A; Current per mass Relay outputs • Number of operating cycles, max. mechanically 10 million, at rated load voltage 100 000 Switching capacity of contacts — with inductive load, max. 2 A 3 0 W with DC, 200 W with AC		28.8 V
Power loss Power loss, typ. Digital outputs Number of digital outputs in groups of Short-circuit protection Switching capacity of the outputs on lamp load, max. Output voltage Rated value (AC) Output delay with resistive load or "0" to "1", max. of "1" to "0", max. 10 ms of "1" to "0", max. 10 ms of "10 a Current of the outputs (per group) horizontal installation — up to 50 °C, max. Relay outputs Native AC Not you with AC 10 A; Current per mass Relay outputs Not contact you with AC 10 A; Current per mass Relay outputs Not contact you with AC Not you with AC		
	from backplane bus 5 V DC, max.	135 mA
Power loss Power loss, typ. Digital outputs	Digital outputs	
Power loss, typ. Digital outputs Number of digital outputs in groups of Short-circuit protection No; to be provided externally Switching capacity of the outputs with resistive load, max. on lamp load, max. 2 A on lamp load, max. 2 A Sy DC to 30 V DC Rated value (DC) Rated value (AC) Output current of or signal "1" rated value Cutput delay with resistive load o"0" to "1", max. "1" to "0", max. "1" to "0", max. Total current of the outputs (per group) horizontal installation — up to 50 °C, max. Relay outputs Number of relay outputs Number of relay outputs Rated supply voltage of relay coil L+ (DC) Number of operating cycles, max. mechanically 10 million, at rated load voltage 100 000 Switching capacity of contacts — with inductive load, max. 2 A On lamp load, max. 2 A 30 W with DC, 200 W with AC	from load voltage L+, max.	11 mA/relay coil
Digital outputs Number of digital outputs in groups of Short-circuit protection No; to be provided externally Switching capacity of the outputs with resistive load, max. on lamp load, max. 2 A on lamp load, max. 2 A Output voltage Rated value (DC) Rated value (AC) Output current of or signal "1" rated value 2 A Output delay with resistive load "0" to "1", max. "1" to "0", max. 10 ms No; to be provided externally SV DC to 30 V DC 5 V DC to 30 V DC 5 V AC to 250 V AC Output durrent of or signal "1" rated value 10 ms Total current of the outputs (per group) horizontal installation — up to 50 °C, max. Relay outputs Number of relay outputs Number of relay outputs Number of operating cycles, max. mechanically 10 million, at rated load voltage 100 000 Switching capacity of contacts — with inductive load, max. 2 A on lamp load, max. 30 W with DC, 200 W with AC	Power loss	
Number of digital outputs in groups of Short-circuit protection No; to be provided externally with resistive load, max. on lamp load, max. Rated value (DC) Rated value (AC) Output current of rignal "1" rated value "0" to "1", max. "1" to "0", max. "1" to "0", max. Total current of the outputs (per group) horizontal installation — up to 50 °C, max. Relay outputs Number of relay outputs Rated supply voltage of relay coil L+ (DC) Rated supply voltage of relay coil L+ (DC) No, to be provided externally 2 A 10 W with DC, 200 W with AC 10 ms Total current of the outputs (per group) horizontal installation — up to 50 °C, max. 10 A; Current per mass Relay outputs Number of relay outputs Rated supply voltage of relay coil L+ (DC) Number of operating cycles, max. mechanically 10 million, at rated load voltage 100 000 Switching capacity of contacts — with inductive load, max. — on lamp load, max. 30 W with DC, 200 W with AC		8.5 W
in groups of Short-circuit protection No; to be provided externally Switching capacity of the outputs with resistive load, max. on lamp load, max. 2 A on lamp load, max. Output voltage Rated value (DC) Rated value (AC) Output current of riginal "1" rated value or "1", max.	Digital outputs	
Short-circuit protection Switching capacity of the outputs with resistive load, max. on lamp load, max. 2 A solutive voltage Rated value (DC) Rated value (AC) Output current of ro signal "1" rated value "0" to "1", max. "1" to "0", max. "1" to "0", max. Total current of the outputs (per group) horizontal installation — up to 50 °C, max. Relay outputs Number of relay outputs Rated supply voltage of relay coil L+ (DC) Number of operating cycles, max. with inductive load, max. — on lamp load, max. 10 No; to be provided externally 2 A 30 W with DC, 200 W with AC	Number of digital outputs	16
Switching capacity of the outputs with resistive load, max. on lamp load, max. 30 W with DC, 200 W with AC Output voltage Rated value (DC) Rated value (AC) Output current of ror signal "1" rated value or "0" to "1", max. "1" to "0", max. Total current of the outputs (per group) horizontal installation — up to 50 °C, max. Relay outputs Number of relay outputs Rated supply voltage of relay coil L+ (DC) Number of operating cycles, max. Switching capacity of contacts — with inductive load, max. — with inductive load, max. — with inductive load, max. — on lamp load, max. 2 A 30 W with DC, 200 W with AC	• in groups of	1
 with resistive load, max. on lamp load, max. 30 W with DC, 200 W with AC Output voltage Rated value (DC) Rated value (AC) V C to 30 V DC Rated value (AC) V AC to 250 V AC Output current for signal "1" rated value 2 A Output delay with resistive load "0" to "1", max. "1" to "0", max. 10 ms Total current of the outputs (per group) horizontal installation — up to 50 °C, max. Relay outputs Number of relay outputs Rated supply voltage of relay coil L+ (DC) Number of operating cycles, max. mechanically 10 million, at rated load voltage 100 000 Switching capacity of contacts — with inductive load, max. a W with DC, 200 W with AC	Short-circuit protection	No; to be provided externally
on lamp load, max. Output voltage Rated value (DC) Rated value (AC) Output current for signal "1" rated value ofur signal "1" rated value	Switching capacity of the outputs	
Output voltage • Rated value (DC) • Rated value (AC) Output current • for signal "1" rated value 2 A Output delay with resistive load • "0" to "1", max. • "1" to "0", max. 10 ms Total current of the outputs (per group) horizontal installation — up to 50 °C, max. Relay outputs • Number of relay outputs • Number of operating cycles, max. Rated supply voltage of relay coil L+ (DC) • Number of operating cycles, max. Switching capacity of contacts — with inductive load, max. — on lamp load, max. 30 W with DC, 200 W with AC	 with resistive load, max. 	2 A
 Rated value (DC) Rated value (AC) 5 V DC to 30 V DC 8 V AC to 250 V AC Output current for signal "1" rated value 2 A Output delay with resistive load "0" to "1", max. "1" to "0", max. 10 ms Total current of the outputs (per group) horizontal installation — up to 50 °C, max. Relay outputs Number of relay outputs Rated supply voltage of relay coil L+ (DC) Number of operating cycles, max. Switching capacity of contacts — with inductive load, max. — on lamp load, max. 30 W with DC, 200 W with AC 	on lamp load, max.	30 W with DC, 200 W with AC
Rated value (AC) Output current	Output voltage	
Output current • for signal "1" rated value 2 A Output delay with resistive load • "0" to "1", max. • "1" to "0", max. 10 ms Total current of the outputs (per group) horizontal installation — up to 50 °C, max. 10 A; Current per mass Relay outputs • Number of relay outputs • Rated supply voltage of relay coil L+ (DC) • Number of operating cycles, max. Switching capacity of contacts — with inductive load, max. — on lamp load, max. 30 W with DC, 200 W with AC	 Rated value (DC) 	5 V DC to 30 V DC
 for signal "1" rated value Output delay with resistive load "0" to "1", max. "1" to "0", max. 10 ms Total current of the outputs (per group) horizontal installation — up to 50 °C, max. Relay outputs Number of relay outputs Rated supply voltage of relay coil L+ (DC) Number of operating cycles, max. Switching capacity of contacts — with inductive load, max. — on lamp load, max. 10 ms 10 ms 10 A; Current per mass 16 24 V mechanically 10 million, at rated load voltage 100 000 With DC, 200 W with AC 	 Rated value (AC) 	5 V AC to 250 V AC
Output delay with resistive load • "0" to "1", max. • "1" to "0", max. 10 ms Total current of the outputs (per group) horizontal installation — up to 50 °C, max. 10 A; Current per mass Relay outputs • Number of relay outputs • Rated supply voltage of relay coil L+ (DC) • Number of operating cycles, max. Switching capacity of contacts — with inductive load, max. — on lamp load, max. 30 W with DC, 200 W with AC	Output current	
 "0" to "1", max. "1" to "0", max. Total current of the outputs (per group) horizontal installation — up to 50 °C, max. Relay outputs Number of relay outputs Rated supply voltage of relay coil L+ (DC) Number of operating cycles, max. Switching capacity of contacts — with inductive load, max. — on lamp load, max. 10 ms 24 V 10 million, at rated load voltage 100 000 Switching capacity of contacts 2 A 30 W with DC, 200 W with AC 	for signal "1" rated value	2 A
 "1" to "0", max. Total current of the outputs (per group) horizontal installation — up to 50 °C, max. Relay outputs Number of relay outputs Rated supply voltage of relay coil L+ (DC) Number of operating cycles, max. Switching capacity of contacts — with inductive load, max. — on lamp load, max. 10 ms 10 ms 10 million, at rated load voltage 100 000 Switching capacity of contacts — with inductive load, max. 30 W with DC, 200 W with AC 	Output delay with resistive load	
Total current of the outputs (per group) horizontal installation — up to 50 °C, max. Relay outputs • Number of relay outputs • Rated supply voltage of relay coil L+ (DC) • Number of operating cycles, max. Mechanically 10 million, at rated load voltage 100 000 Switching capacity of contacts — with inductive load, max. — on lamp load, max. 30 W with DC, 200 W with AC	• "0" to "1", max.	10 ms
horizontal installation — up to 50 °C, max. Relay outputs • Number of relay outputs • Rated supply voltage of relay coil L+ (DC) • Number of operating cycles, max. Switching capacity of contacts — with inductive load, max. — on lamp load, max. 30 W with DC, 200 W with AC	• "1" to "0", max.	10 ms
 — up to 50 °C, max. Relay outputs Number of relay outputs Rated supply voltage of relay coil L+ (DC) Number of operating cycles, max. Switching capacity of contacts — with inductive load, max. — on lamp load, max. 16 24 V mechanically 10 million, at rated load voltage 100 000 Switching capacity of contacts 2 A 30 W with DC, 200 W with AC 	Total current of the outputs (per group)	
Relay outputs Number of relay outputs Rated supply voltage of relay coil L+ (DC) Number of operating cycles, max. Rechanically 10 million, at rated load voltage 100 000 Switching capacity of contacts with inductive load, max. on lamp load, max. 30 W with DC, 200 W with AC	horizontal installation	
 Number of relay outputs Rated supply voltage of relay coil L+ (DC) Number of operating cycles, max. Switching capacity of contacts — with inductive load, max. — on lamp load, max. 16 24 V mechanically 10 million, at rated load voltage 100 000 24 V mechanically 10 million, at rated load voltage 100 000 With inductive load, max. 30 W with DC, 200 W with AC 	— up to 50 °C, max.	10 A; Current per mass
 Rated supply voltage of relay coil L+ (DC) Number of operating cycles, max. Switching capacity of contacts — with inductive load, max. — on lamp load, max. 30 W with DC, 200 W with AC 	Relay outputs	
 Number of operating cycles, max. Switching capacity of contacts — with inductive load, max. — on lamp load, max. 30 W with DC, 200 W with AC 	 Number of relay outputs 	16
Switching capacity of contacts — with inductive load, max. — on lamp load, max. 30 W with DC, 200 W with AC		24 V
— with inductive load, max.— on lamp load, max.2 A30 W with DC, 200 W with AC	Number of operating cycles, max.	mechanically 10 million, at rated load voltage 100 000
— on lamp load, max. 30 W with DC, 200 W with AC	Switching capacity of contacts	
	— with inductive load, max.	2 A
— with resistive load, max.	— on lamp load, max.	30 W with DC, 200 W with AC
	— with resistive load, max.	2 A

Cable length	
shielded, max.	500 m
unshielded, max.	150 m
Interrupts/diagnostics/status information	
Alarms	
Diagnostic alarm	Yes
Diagnostics indication LED	
 for status of the outputs 	Yes
Potential separation	
Potential separation digital outputs	
between the channels	Relays
 between the channels, in groups of 	4
 between the channels and backplane bus 	1 500 V AC for 1 minute
Permissible potential difference	
between different circuits	750 V AC for 1 minute
Degree and class of protection	
IP degree of protection	IP20
Standards, approvals, certificates	20
CE mark	Yes
CSA approval	Yes
UL approval	Yes
cULus	Yes
FM approval	Yes
RCM (formerly C-TICK)	Yes
KC approval	Yes
Marine approval	Yes
Ambient conditions	1.00
Free fall	
• Fall height, max.	0.3 m; five times, in product package
Ambient temperature during operation	o.o m, mo amos, m product puolage
	-20 °C
• min.	-/// (,
min. max.	
● min. ● max.	60 °C; Number of simultaneously activated outputs: 8 (no adjacent points) at 60 °C horizontal or 50 °C vertical, 16 at 55 °C horizontal or 45
• max.	60 °C; Number of simultaneously activated outputs: 8 (no adjacent points) at 60 °C horizontal or 50 °C vertical, 16 at 55 °C horizontal or 45 °C vertical
max.horizontal installation, min.	60 °C; Number of simultaneously activated outputs: 8 (no adjacent points) at 60 °C horizontal or 50 °C vertical, 16 at 55 °C horizontal or 45 °C vertical -20 °C
max.horizontal installation, min.horizontal installation, max.	60 °C; Number of simultaneously activated outputs: 8 (no adjacent points) at 60 °C horizontal or 50 °C vertical, 16 at 55 °C horizontal or 45 °C vertical -20 °C 60 °C
 max. horizontal installation, min. horizontal installation, max. vertical installation, min. 	60 °C; Number of simultaneously activated outputs: 8 (no adjacent points) at 60 °C horizontal or 50 °C vertical, 16 at 55 °C horizontal or 45 °C vertical -20 °C 60 °C -20 °C
 max. horizontal installation, min. horizontal installation, max. vertical installation, min. vertical installation, max. 	60 °C; Number of simultaneously activated outputs: 8 (no adjacent points) at 60 °C horizontal or 50 °C vertical, 16 at 55 °C horizontal or 45 °C vertical -20 °C 60 °C -20 °C 50 °C
 max. horizontal installation, min. horizontal installation, max. vertical installation, min. vertical installation, max. permissible temperature change 	60 °C; Number of simultaneously activated outputs: 8 (no adjacent points) at 60 °C horizontal or 50 °C vertical, 16 at 55 °C horizontal or 45 °C vertical -20 °C 60 °C -20 °C
 max. horizontal installation, min. horizontal installation, max. vertical installation, min. vertical installation, max. 	60 °C; Number of simultaneously activated outputs: 8 (no adjacent points) at 60 °C horizontal or 50 °C vertical, 16 at 55 °C horizontal or 45 °C vertical -20 °C 60 °C -20 °C 50 °C 5°C to 55°C, 3°C / minute
 max. horizontal installation, min. horizontal installation, max. vertical installation, min. vertical installation, max. permissible temperature change Ambient temperature during storage/transportation	60 °C; Number of simultaneously activated outputs: 8 (no adjacent points) at 60 °C horizontal or 50 °C vertical, 16 at 55 °C horizontal or 45 °C vertical -20 °C 60 °C -20 °C 50 °C
 max. horizontal installation, min. horizontal installation, max. vertical installation, min. vertical installation, max. permissible temperature change Ambient temperature during storage/transportation min. 	60 °C; Number of simultaneously activated outputs: 8 (no adjacent points) at 60 °C horizontal or 50 °C vertical, 16 at 55 °C horizontal or 45 °C vertical -20 °C 60 °C -20 °C 50 °C 5°C to 55°C, 3°C / minute
 max. horizontal installation, min. horizontal installation, max. vertical installation, min. vertical installation, max. permissible temperature change Ambient temperature during storage/transportation min. max. 	60 °C; Number of simultaneously activated outputs: 8 (no adjacent points) at 60 °C horizontal or 50 °C vertical, 16 at 55 °C horizontal or 45 °C vertical -20 °C 60 °C -20 °C 50 °C 5°C to 55°C, 3°C / minute
 max. horizontal installation, min. horizontal installation, max. vertical installation, min. vertical installation, max. permissible temperature change Ambient temperature during storage/transportation min. max. Air pressure acc. to IEC 60068-2-13	60 °C; Number of simultaneously activated outputs: 8 (no adjacent points) at 60 °C horizontal or 50 °C vertical, 16 at 55 °C horizontal or 45 °C vertical -20 °C 60 °C -20 °C 50 °C 5°C to 55°C, 3°C / minute
 max. horizontal installation, min. horizontal installation, max. vertical installation, min. vertical installation, max. permissible temperature change Ambient temperature during storage/transportation min. max. Air pressure acc. to IEC 60068-2-13 Storage/transport, min. 	60 °C; Number of simultaneously activated outputs: 8 (no adjacent points) at 60 °C horizontal or 50 °C vertical, 16 at 55 °C horizontal or 45 °C vertical -20 °C 60 °C -20 °C 50 °C 5°C to 55°C, 3°C / minute
 max. horizontal installation, min. horizontal installation, max. vertical installation, min. vertical installation, max. permissible temperature change Ambient temperature during storage/transportation min. max. Air pressure acc. to IEC 60068-2-13 Storage/transport, min. Storage/transport, max. 	60 °C; Number of simultaneously activated outputs: 8 (no adjacent points) at 60 °C horizontal or 50 °C vertical, 16 at 55 °C horizontal or 45 °C vertical -20 °C 60 °C -20 °C 50 °C 5°C to 55°C, 3°C / minute
 max. horizontal installation, min. horizontal installation, max. vertical installation, min. vertical installation, max. permissible temperature change Ambient temperature during storage/transportation min. max. Air pressure acc. to IEC 60068-2-13 Storage/transport, min. Storage/transport, max. Relative humidity 	60 °C; Number of simultaneously activated outputs: 8 (no adjacent points) at 60 °C horizontal or 50 °C vertical, 16 at 55 °C horizontal or 45 °C vertical -20 °C 60 °C -20 °C 50 °C 5°C to 55°C, 3°C / minute -40 °C 70 °C 660 hPa 1 080 hPa
 max. horizontal installation, min. horizontal installation, max. vertical installation, min. vertical installation, max. permissible temperature change Ambient temperature during storage/transportation min. max. Air pressure acc. to IEC 60068-2-13 Storage/transport, min. Storage/transport, max. Relative humidity Operation at 25 °C without condensation, max. 	60 °C; Number of simultaneously activated outputs: 8 (no adjacent points) at 60 °C horizontal or 50 °C vertical, 16 at 55 °C horizontal or 45 °C vertical -20 °C 60 °C -20 °C 50 °C 5°C to 55°C, 3°C / minute -40 °C 70 °C 660 hPa 1 080 hPa
 max. horizontal installation, min. horizontal installation, max. vertical installation, min. vertical installation, max. permissible temperature change Ambient temperature during storage/transportation min. max. Air pressure acc. to IEC 60068-2-13 Storage/transport, min. Storage/transport, max. Relative humidity Operation at 25 °C without condensation, max. Connection method 	60 °C; Number of simultaneously activated outputs: 8 (no adjacent points) at 60 °C horizontal or 50 °C vertical, 16 at 55 °C horizontal or 45 °C vertical -20 °C 60 °C -20 °C 50 °C 5°C to 55°C, 3°C / minute -40 °C 70 °C 660 hPa 1 080 hPa
 max. horizontal installation, min. horizontal installation, max. vertical installation, min. vertical installation, max. permissible temperature change Ambient temperature during storage/transportation min. max. Air pressure acc. to IEC 60068-2-13 Storage/transport, min. Storage/transport, max. Relative humidity Operation at 25 °C without condensation, max. Connection method required front connector Mechanics/material 	60 °C; Number of simultaneously activated outputs: 8 (no adjacent points) at 60 °C horizontal or 50 °C vertical, 16 at 55 °C horizontal or 45 °C vertical -20 °C 60 °C -20 °C 50 °C 5°C to 55°C, 3°C / minute -40 °C 70 °C 660 hPa 1 080 hPa
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 max. horizontal installation, min. horizontal installation, max. vertical installation, min. vertical installation, max. permissible temperature change Ambient temperature during storage/transportation min. max. Air pressure acc. to IEC 60068-2-13 Storage/transport, min. Storage/transport, max. Relative humidity Operation at 25 °C without condensation, max. Connection method required front connector Mechanics/material Enclosure material (front) Plastic 	60 °C; Number of simultaneously activated outputs: 8 (no adjacent points) at 60 °C horizontal or 50 °C vertical, 16 at 55 °C horizontal or 45 °C vertical -20 °C 60 °C -20 °C 50 °C 5°C to 55°C, 3°C / minute -40 °C 70 °C 660 hPa 1 080 hPa 95 %
 max. horizontal installation, min. horizontal installation, max. vertical installation, min. vertical installation, max. permissible temperature change Ambient temperature during storage/transportation min. max. Air pressure acc. to IEC 60068-2-13 Storage/transport, min. Storage/transport, max. Relative humidity Operation at 25 °C without condensation, max. Connection method required front connector Mechanics/material Enclosure material (front) 	60 °C; Number of simultaneously activated outputs: 8 (no adjacent points) at 60 °C horizontal or 50 °C vertical, 16 at 55 °C horizontal or 45 °C vertical -20 °C 60 °C -20 °C 50 °C 5°C to 55°C, 3°C / minute -40 °C 70 °C 660 hPa 1 080 hPa 95 %
 max. horizontal installation, min. horizontal installation, max. vertical installation, min. vertical installation, max. permissible temperature change Ambient temperature during storage/transportation min. max. Air pressure acc. to IEC 60068-2-13 Storage/transport, min. Storage/transport, max. Relative humidity Operation at 25 °C without condensation, max. Connection method required front connector Mechanics/material Enclosure material (front) Plastic Dimensions Width 	60 °C; Number of simultaneously activated outputs: 8 (no adjacent points) at 60 °C horizontal or 50 °C vertical, 16 at 55 °C horizontal or 45 °C vertical -20 °C 60 °C -20 °C 50 °C 5°C to 55°C, 3°C / minute -40 °C 70 °C 660 hPa 1 080 hPa 1 080 hPa 95 % Yes
 max. horizontal installation, min. horizontal installation, max. vertical installation, min. vertical installation, max. permissible temperature change Ambient temperature during storage/transportation min. max. Air pressure acc. to IEC 60068-2-13 Storage/transport, min. Storage/transport, max. Relative humidity Operation at 25 °C without condensation, max. Connection method required front connector Mechanics/material Enclosure material (front) Plastic Dimensions Width Height 	60 °C; Number of simultaneously activated outputs: 8 (no adjacent points) at 60 °C horizontal or 50 °C vertical, 16 at 55 °C horizontal or 45 °C vertical -20 °C 60 °C -20 °C 50 °C 5°C to 55°C, 3°C / minute -40 °C 70 °C 660 hPa 1 080 hPa 95 % Yes Yes
 max. horizontal installation, min. horizontal installation, max. vertical installation, min. vertical installation, max. permissible temperature change Ambient temperature during storage/transportation min. max. Air pressure acc. to IEC 60068-2-13 Storage/transport, min. Storage/transport, max. Relative humidity Operation at 25 °C without condensation, max. Connection method required front connector Mechanics/material Enclosure material (front) Plastic Dimensions Width 	60 °C; Number of simultaneously activated outputs: 8 (no adjacent points) at 60 °C horizontal or 50 °C vertical, 16 at 55 °C horizontal or 45 °C vertical -20 °C 60 °C -20 °C 50 °C 50 °C 50 °C 5°C to 55°C, 3°C / minute -40 °C 70 °C 660 hPa 1 080 hPa 95 % Yes Yes

Weight, approx.	260 g

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