SIEMENS

Data sheet

6ES7288-2DR16-0AA0

	SIMATIC S7-200 SMART, Digital I/O SM DR16, 8DI/8DO, 8 DI 24 V DC, Sink/Source, 8 DO, relay 2 A
General information	
Product type designation	SM DR16, DI 8x24 V DC, DQ 8x relay/2 A
Supply voltage	
Rated value (DC)	24 V
permissible range, lower limit (DC)	20.4 V
permissible range, upper limit (DC)	28.8 V
Input current	
Current consumption, typ.	80 mA; Current for 24 V DC input power
from backplane bus 5 V DC, typ.	115 mA; For 5 V DC from CPU module
Digital inputs	
Number of digital inputs	8
• in groups of	2
Parallel switching of inputs	Yes
Input characteristic curve in accordance with IEC 61131, type 1	Yes
Number of simultaneously controllable inputs	
horizontal installation	
— up to 50 °C, max.	8
vertical installation	•
— up to 40 °C, max.	8
Input voltage	•
Type of input voltage	DC
Rated value (DC)	24 V
• for signal "0"	< 5 V DC
• for signal "1"	+15 to +30 V
Input current	
for signal "0", max. (permissible quiescent current)	1 mA
• for signal "1", min.	2.5 mA
• for signal "1", max.	5 mA
• for signal "1", typ.	4 mA
Input delay (for rated value of input voltage)	
for standard inputs	
— at "0" to "1", max.	200 µs
— at "1" to "0", max.	200 µs
Cable length	200 μ3
shielded, max.	500 m
• unshielded, max.	300 m
Digital outputs	500 m
Number of digital outputs	8
Short-circuit protection	No
	NO
Output current	2 A
for signal "1" rated value	2 A
Output delay with resistive load "0" to "1", max. 	10 mc
	10 ms 10 ms
• "1" to "0", max.	0110
Parallel switching of two outputs	No
for logic links	No
for uprating	No
for redundant control of a load	No
Relay outputs	0
Number of relay outputs	8
 Rated supply voltage of relay coil L+ (DC) 	24 V

 Reverse polarity protection 	Yes
 Current consumption of relays (coil current of all relays), max. 	80 mA
Switching capacity of contacts	
- with inductive load, max.	2 A
— on lamp load, max.	30 W; 30 W with DC, 200 W with AC 2 A
— with resistive load, up to 50 °C, max.	
— with resistive load, up to 60 °C, max.	2 A 2 A
 — with resistive load, max. — Thermal continuous current, max. 	2 A 2 A
Cable length	ZA
shielded, max.	500 m
• unshielded, max.	150 m
Interrupts/diagnostics/status information	
Diagnostics indication LED	Yes
• for status of the inputs	
for status of the outputs	Yes
Potential separation	
Potential separation digital inputs	Vari Ortecourler
between the channels	Yes; Optocoupler
Potential separation digital outputs	
between the channels	Yes; Relay, dry contact
Isolation	F00 V/AC for 4 minute for input indictions 4F00 V/AC for 4 minute for output
Isolation tested with	500 V AC for 1 minute for input isolation; 1500 V AC for 1 minute for output isolation
EMC	
Interference immunity against discharge of static electricity	
Interference immunity against discharge of static	Yes; ±4 kV contact discharge (to IEC 801-2/IEC 1000-4-2; ESD), ±8 kV air
electricity acc. to IEC 61000-4-2	discharge (to IEC 801-2/IEC 1000-4-2; ESD)
— Test voltage at air discharge	8 kV
 Test voltage at contact discharge 	4 kV
Interference immunity against high-frequency electromagnetic field	S
 Interference immunity against high-frequency radiation acc. to IEC 61000-4-3 	Yes
	Yes 80 to 1000 MHz, 10 V/m, 1.4 to 2.0 GHz, 3 V/m, 2.0 to 2.7 GHz, 1 V/m(In the range of 87 MHz to 187 MHz, 174 MHz to 230 MHz and 470 MHz to 790 MHz: 3V/m)
acc. to IEC 61000-4-3	80 to 1000 MHz, 10 V/m, 1.4 to 2.0 GHz, 3 V/m, 2.0 to 2.7 GHz, 1 V/m(In the range of 87 MHz to 187 MHz, 174 MHz to 230 MHz and 470 MHz to 790 MHz:
acc. to IEC 61000-4-3 — Frequency range of the RF radiation	80 to 1000 MHz, 10 V/m, 1.4 to 2.0 GHz, 3 V/m, 2.0 to 2.7 GHz, 1 V/m(In the range of 87 MHz to 187 MHz, 174 MHz to 230 MHz and 470 MHz to 790 MHz:
acc. to IEC 61000-4-3 — Frequency range of the RF radiation Interference immunity to cable-borne interference • Interference immunity on supply lines acc. to IEC 61000-	80 to 1000 MHz, 10 V/m, 1.4 to 2.0 GHz, 3 V/m, 2.0 to 2.7 GHz, 1 V/m(In the range of 87 MHz to 187 MHz, 174 MHz to 230 MHz and 470 MHz to 790 MHz: 3V/m)
acc. to IEC 61000-4-3 — Frequency range of the RF radiation Interference immunity to cable-borne interference • Interference immunity on supply lines acc. to IEC 61000- 4-4 • Interference immunity on signal cables acc. to IEC 61000-	80 to 1000 MHz, 10 V/m, 1.4 to 2.0 GHz, 3 V/m, 2.0 to 2.7 GHz, 1 V/m(In the range of 87 MHz to 187 MHz, 174 MHz to 230 MHz and 470 MHz to 790 MHz: 3V/m) Yes; 2 kV acc. to IEC 61000-4-4, burst
 acc. to IEC 61000-4-3 Frequency range of the RF radiation Interference immunity to cable-borne interference Interference immunity on supply lines acc. to IEC 61000-4-4 Interference immunity on signal cables acc. to IEC 61000-4-4 	80 to 1000 MHz, 10 V/m, 1.4 to 2.0 GHz, 3 V/m, 2.0 to 2.7 GHz, 1 V/m(In the range of 87 MHz to 187 MHz, 174 MHz to 230 MHz and 470 MHz to 790 MHz: 3V/m) Yes; 2 kV acc. to IEC 61000-4-4, burst
 acc. to IEC 61000-4-3 Frequency range of the RF radiation Interference immunity to cable-borne interference Interference immunity on supply lines acc. to IEC 61000-4-4 Interference immunity on signal cables acc. to IEC 61000-4-4 Interference immunity against voltage surge Interference immunity on supply lines acc. to IEC 61000-4-4 	80 to 1000 MHz, 10 V/m, 1.4 to 2.0 GHz, 3 V/m, 2.0 to 2.7 GHz, 1 V/m(In the range of 87 MHz to 187 MHz, 174 MHz to 230 MHz and 470 MHz to 790 MHz: 3V/m) Yes; 2 kV acc. to IEC 61000-4-4, burst Yes; ±2 kV acc. to IEC 61000-4-4, Burst
 acc. to IEC 61000-4-3 Frequency range of the RF radiation Interference immunity to cable-borne interference Interference immunity on supply lines acc. to IEC 61000-4-4 Interference immunity on signal cables acc. to IEC 61000-4-4 Interference immunity against voltage surge Interference immunity on supply lines acc. to IEC 61000-4-5 	80 to 1000 MHz, 10 V/m, 1.4 to 2.0 GHz, 3 V/m, 2.0 to 2.7 GHz, 1 V/m(In the range of 87 MHz to 187 MHz, 174 MHz to 230 MHz and 470 MHz to 790 MHz: 3V/m) Yes; 2 kV acc. to IEC 61000-4-4, burst Yes; ±2 kV acc. to IEC 61000-4-4, Burst
 acc. to IEC 61000-4-3 Frequency range of the RF radiation Interference immunity to cable-borne interference Interference immunity on supply lines acc. to IEC 61000-4-4 Interference immunity on signal cables acc. to IEC 61000-4-4 Interference immunity against voltage surge Interference immunity on supply lines acc. to IEC 61000-4-5 asymmetric interference 	80 to 1000 MHz, 10 V/m, 1.4 to 2.0 GHz, 3 V/m, 2.0 to 2.7 GHz, 1 V/m(In the range of 87 MHz to 187 MHz, 174 MHz to 230 MHz and 470 MHz to 790 MHz: 3V/m) Yes; 2 kV acc. to IEC 61000-4-4, burst Yes; ±2 kV acc. to IEC 61000-4-4, Burst Yes; With upstream protective element
acc. to IEC 61000-4-3 — Frequency range of the RF radiation Interference immunity to cable-borne interference • Interference immunity on supply lines acc. to IEC 61000- 4-4 • Interference immunity on signal cables acc. to IEC 61000- 4-4 Interference immunity against voltage surge • Interference immunity on supply lines acc. to IEC 61000- 4-5 • asymmetric interference — Test voltage on supply cables	80 to 1000 MHz, 10 V/m, 1.4 to 2.0 GHz, 3 V/m, 2.0 to 2.7 GHz, 1 V/m(In the range of 87 MHz to 187 MHz, 174 MHz to 230 MHz and 470 MHz to 790 MHz: 3V/m) Yes; 2 kV acc. to IEC 61000-4-4, burst Yes; ±2 kV acc. to IEC 61000-4-4, Burst Yes; With upstream protective element 2 kV 2 kV
acc. to IEC 61000-4-3 — Frequency range of the RF radiation Interference immunity to cable-borne interference • Interference immunity on supply lines acc. to IEC 61000- 4-4 • Interference immunity on signal cables acc. to IEC 61000- 4-4 Interference immunity against voltage surge • Interference immunity on supply lines acc. to IEC 61000- 4-5 • asymmetric interference — Test voltage on supply cables — Test voltage on signal cables >30m	80 to 1000 MHz, 10 V/m, 1.4 to 2.0 GHz, 3 V/m, 2.0 to 2.7 GHz, 1 V/m(In the range of 87 MHz to 187 MHz, 174 MHz to 230 MHz and 470 MHz to 790 MHz: 3V/m) Yes; 2 kV acc. to IEC 61000-4-4, burst Yes; ±2 kV acc. to IEC 61000-4-4, Burst Yes; With upstream protective element 2 kV 2 kV
acc. to IEC 61000-4-3 — Frequency range of the RF radiation Interference immunity to cable-borne interference • Interference immunity on supply lines acc. to IEC 61000- 4-4 • Interference immunity on signal cables acc. to IEC 61000- 4-4 Interference immunity against voltage surge • Interference immunity on supply lines acc. to IEC 61000- 4-5 • asymmetric interference — Test voltage on supply cables — Test voltage on signal cables >30m Interference immunity against conducted variable disturbance indu • Interference immunity against high frequency current feed	80 to 1000 MHz, 10 V/m, 1.4 to 2.0 GHz, 3 V/m, 2.0 to 2.7 GHz, 1 V/m(In the range of 87 MHz to 187 MHz, 174 MHz to 230 MHz and 470 MHz to 790 MHz: 3V/m) Yes; 2 kV acc. to IEC 61000-4-4, burst Yes; ±2 kV acc. to IEC 61000-4-4, Burst Yes; With upstream protective element 2 kV 2 kV ced by high-frequency fields
acc. to IEC 61000-4-3 — Frequency range of the RF radiation Interference immunity to cable-borne interference • Interference immunity on supply lines acc. to IEC 61000- 4-4 • Interference immunity on signal cables acc. to IEC 61000- 4-4 Interference immunity against voltage surge • Interference immunity on supply lines acc. to IEC 61000- 4-5 • asymmetric interference — Test voltage on supply cables — Test voltage on signal cables >30m Interference immunity against conducted variable disturbance indu • Interference immunity against high frequency current feed acc. to IEC 61000-4-6 • Interference immunity against high-frequency radiation	80 to 1000 MHz, 10 V/m, 1.4 to 2.0 GHz, 3 V/m, 2.0 to 2.7 GHz, 1 V/m(In the range of 87 MHz to 187 MHz, 174 MHz to 230 MHz and 470 MHz to 790 MHz: 3V/m) Yes; 2 kV acc. to IEC 61000-4-4, burst Yes; ±2 kV acc. to IEC 61000-4-4, Burst Yes; With upstream protective element 2 kV 2 kV ceed by high-frequency fields Yes
acc. to IEC 61000-4-3 — Frequency range of the RF radiation Interference immunity to cable-borne interference • Interference immunity on supply lines acc. to IEC 61000- 4-4 • Interference immunity on signal cables acc. to IEC 61000- 4-4 Interference immunity against voltage surge • Interference immunity on supply lines acc. to IEC 61000- 4-5 • asymmetric interference — Test voltage on supply cables — Test voltage on signal cables >30m Interference immunity against conducted variable disturbance indu • Interference immunity against high frequency current feed acc. to IEC 61000-4-6 • Interference immunity against high-frequency radiation acc. to IEC 61000-4-6 — Test voltage at 80% amplitude modulation with 1kHz	80 to 1000 MHz, 10 V/m, 1.4 to 2.0 GHz, 3 V/m, 2.0 to 2.7 GHz, 1 V/m(In the range of 87 MHz to 187 MHz, 174 MHz to 230 MHz and 470 MHz to 790 MHz: 3V/m) Yes; 2 kV acc. to IEC 61000-4-4, burst Yes; ±2 kV acc. to IEC 61000-4-4, Burst Yes; With upstream protective element 2 kV 2 kV ced by high-frequency fields Yes Yes; 10 V/m, with 80% amplitude modulation at 1 kHz
acc. to IEC 61000-4-3 — Frequency range of the RF radiation Interference immunity to cable-borne interference • Interference immunity on supply lines acc. to IEC 61000- 4-4 • Interference immunity on signal cables acc. to IEC 61000- 4-4 Interference immunity against voltage surge • Interference immunity on supply lines acc. to IEC 61000- 4-5 • asymmetric interference — Test voltage on supply cables — Test voltage on signal cables >30m Interference immunity against conducted variable disturbance indu • Interference immunity against high frequency current feed acc. to IEC 61000-4-6 • Interference immunity against high-frequency radiation acc. to IEC 61000-4-6 — Test voltage at 80% amplitude modulation with 1kHz in the range 9 kHz to 80 MHz	80 to 1000 MHz, 10 V/m, 1.4 to 2.0 GHz, 3 V/m, 2.0 to 2.7 GHz, 1 V/m(In the range of 87 MHz to 187 MHz, 174 MHz to 230 MHz and 470 MHz to 790 MHz: 3V/m) Yes; 2 kV acc. to IEC 61000-4-4, burst Yes; ±2 kV acc. to IEC 61000-4-4, Burst Yes; With upstream protective element 2 kV 2 kV ced by high-frequency fields Yes Yes; 10 V/m, with 80% amplitude modulation at 1 kHz
acc. to IEC 61000-4-3 — Frequency range of the RF radiation Interference immunity to cable-borne interference • Interference immunity on supply lines acc. to IEC 61000- 4-4 • Interference immunity on signal cables acc. to IEC 61000- 4-4 Interference immunity against voltage surge • Interference immunity on supply lines acc. to IEC 61000- 4-5 • asymmetric interference — Test voltage on supply cables — Test voltage on signal cables >30m Interference immunity against conducted variable disturbance indu • Interference immunity against high frequency current feed acc. to IEC 61000-4-6 • Interference immunity against high-frequency radiation acc. to IEC 61000-4-6 — Test voltage at 80% amplitude modulation with 1kHz in the range 9 kHz to 80 MHz Emission of radio interference acc. to EN 55 011	80 to 1000 MHz, 10 V/m, 1.4 to 2.0 GHz, 3 V/m, 2.0 to 2.7 GHz, 1 V/m(In the range of 87 MHz to 187 MHz, 174 MHz to 230 MHz and 470 MHz to 790 MHz: 3V/m) Yes; 2 kV acc. to IEC 61000-4-4, burst Yes; ±2 kV acc. to IEC 61000-4-4, Burst Yes; With upstream protective element 2 kV 2 kV ced by high-frequency fields Yes Yes; 10 V/m, with 80% amplitude modulation at 1 kHz 10 V
acc. to IEC 61000-4-3 — Frequency range of the RF radiation Interference immunity to cable-borne interference • Interference immunity on supply lines acc. to IEC 61000- 4-4 • Interference immunity on signal cables acc. to IEC 61000- 4-4 Interference immunity against voltage surge • Interference immunity on supply lines acc. to IEC 61000- 4-5 • asymmetric interference — Test voltage on supply cables — Test voltage on signal cables >30m Interference immunity against conducted variable disturbance indu • Interference immunity against high frequency current feed acc. to IEC 61000-4-6 • Interference immunity against high-frequency radiation acc. to IEC 61000-4-6 — Test voltage at 80% amplitude modulation with 1kHz in the range 9 kHz to 80 MHz Emission of radio interference • Limit class A, for use in industrial areas	80 to 1000 MHz, 10 V/m, 1.4 to 2.0 GHz, 3 V/m, 2.0 to 2.7 GHz, 1 V/m(In the range of 87 MHz to 187 MHz, 174 MHz to 230 MHz and 470 MHz to 790 MHz: 3V/m) Yes; 2 kV acc. to IEC 61000-4-4, burst Yes; ±2 kV acc. to IEC 61000-4-4, Burst Yes; With upstream protective element 2 kV 2 kV ced by high-frequency fields Yes Yes; 10 V/m, with 80% amplitude modulation at 1 kHz 10 V Interference emission to EN 50081-2, testing to EN 55011, Class A, Group 1
acc. to IEC 61000-4-3 — Frequency range of the RF radiation Interference immunity to cable-borne interference • Interference immunity on supply lines acc. to IEC 61000- 4-4 • Interference immunity on signal cables acc. to IEC 61000- 4-4 Interference immunity against voltage surge • Interference immunity on supply lines acc. to IEC 61000- 4-5 • asymmetric interference — Test voltage on supply cables — Test voltage on signal cables >30m Interference immunity against conducted variable disturbance indu • Interference immunity against conducted variable disturbance indu • Interference immunity against high frequency current feed acc. to IEC 61000-4-6 • Interference immunity against high-frequency radiation acc. to IEC 61000-4-6 — Test voltage at 80% amplitude modulation with 1kHz in the range 9 kHz to 80 MHz Emission of radio interference • Limit class A, for use in industrial areas Degree and class of protection	80 to 1000 MHz, 10 V/m, 1.4 to 2.0 GHz, 3 V/m, 2.0 to 2.7 GHz, 1 V/m(In the range of 87 MHz to 187 MHz, 174 MHz to 230 MHz and 470 MHz to 790 MHz: 3V/m) Yes; 2 kV acc. to IEC 61000-4-4, burst Yes; ±2 kV acc. to IEC 61000-4-4, Burst Yes; With upstream protective element 2 kV 2 kV ced by high-frequency fields Yes Yes; 10 V/m, with 80% amplitude modulation at 1 kHz 10 V Interference emission to EN 50081-2, testing to EN 55011, Class A, Group 1
acc. to IEC 61000-4-3 — Frequency range of the RF radiation Interference immunity to cable-borne interference • Interference immunity on supply lines acc. to IEC 61000- 4-4 • Interference immunity on signal cables acc. to IEC 61000- 4-4 Interference immunity against voltage surge • Interference immunity on supply lines acc. to IEC 61000- 4-5 • asymmetric interference — Test voltage on supply cables — Test voltage on signal cables >30m Interference immunity against conducted variable disturbance indu • Interference immunity against conducted variable disturbance indu • Interference immunity against high frequency current feed acc. to IEC 61000-4-6 • Interference immunity against high-frequency radiation acc. to IEC 61000-4-6 — Test voltage at 80% amplitude modulation with 1kHz in the range 9 kHz to 80 MHz Emission of radio interference • Limit class A, for use in industrial areas Degree and class of protection IP degree of protection	80 to 1000 MHz, 10 V/m, 1.4 to 2.0 GHz, 3 V/m, 2.0 to 2.7 GHz, 1 V/m(In the range of 87 MHz to 187 MHz, 174 MHz to 230 MHz and 470 MHz to 790 MHz: 3V/m) Yes; 2 kV acc. to IEC 61000-4-4, burst Yes; ±2 kV acc. to IEC 61000-4-4, Burst Yes; With upstream protective element 2 kV 2 kV ced by high-frequency fields Yes Yes; 10 V/m, with 80% amplitude modulation at 1 kHz 10 V Interference emission to EN 50081-2, testing to EN 55011, Class A, Group 1 Yes
acc. to IEC 61000-4-3 — Frequency range of the RF radiation Interference immunity to cable-borne interference • Interference immunity on supply lines acc. to IEC 61000- 4-4 • Interference immunity on signal cables acc. to IEC 61000- 4-4 Interference immunity against voltage surge • Interference immunity on supply lines acc. to IEC 61000- 4-5 • asymmetric interference — Test voltage on supply cables — Test voltage on signal cables >30m Interference immunity against conducted variable disturbance indu • Interference immunity against conducted variable disturbance indu • Interference immunity against high frequency current feed acc. to IEC 61000-4-6 • Interference immunity against high-frequency radiation acc. to IEC 61000-4-6 — Test voltage at 80% amplitude modulation with 1kHz in the range 9 kHz to 80 MHz Emission of radio interference • Limit class A, for use in industrial areas Degree and class of protection IP degree of protection Standards, approvals, certificates	80 to 1000 MHz, 10 V/m, 1.4 to 2.0 GHz, 3 V/m, 2.0 to 2.7 GHz, 1 V/m(in the range of 87 MHz to 187 MHz, 174 MHz to 230 MHz and 470 MHz to 790 MHz: 3V/m) Yes; 2 kV acc. to IEC 61000-4-4, burst Yes; ±2 kV acc. to IEC 61000-4-4, Burst Yes; With upstream protective element 2 kV 2 kV ced by high-frequency fields Yes Yes; 10 V/m, with 80% amplitude modulation at 1 kHz 10 V Interference emission to EN 50081-2, testing to EN 55011, Class A, Group 1 Yes IP20
acc. to IEC 61000-4-3 — Frequency range of the RF radiation Interference immunity to cable-borne interference • Interference immunity on supply lines acc. to IEC 61000- 4-4 • Interference immunity on signal cables acc. to IEC 61000- 4-4 Interference immunity against voltage surge • Interference immunity on supply lines acc. to IEC 61000- 4-5 • asymmetric interference — Test voltage on supply cables — Test voltage on signal cables >30m Interference immunity against conducted variable disturbance indu • Interference immunity against conducted variable disturbance indu • Interference immunity against high frequency current feed acc. to IEC 61000-4-6 • Interference immunity against high-frequency radiation acc. to IEC 61000-4-6 — Test voltage at 80% amplitude modulation with 1kHz in the range 9 kHz to 80 MHz Emission of radio interference • Limit class A, for use in industrial areas Degree and class of protection IP degree of protection Standards, approvals, certificates CE mark	80 to 1000 MHz, 10 V/m, 1.4 to 2.0 GHz, 3 V/m, 2.0 to 2.7 GHz, 1 V/m(In the range of 87 MHz to 187 MHz, 174 MHz to 230 MHz and 470 MHz to 790 MHz: 3V/m) Yes; 2 kV acc. to IEC 61000-4-4, burst Yes; ±2 kV acc. to IEC 61000-4-4, Burst Yes; With upstream protective element 2 kV 2 kV ced by high-frequency fields Yes Yes; 10 V/m, with 80% amplitude modulation at 1 kHz 10 V Interference emission to EN 50081-2, testing to EN 55011, Class A, Group 1 Yes
acc. to IEC 61000-4-3 — Frequency range of the RF radiation Interference immunity to cable-borne interference • Interference immunity on supply lines acc. to IEC 61000- 4-4 • Interference immunity on signal cables acc. to IEC 61000- 4-4 Interference immunity against voltage surge • Interference immunity on supply lines acc. to IEC 61000- 4-5 • asymmetric interference — Test voltage on supply cables — Test voltage on signal cables >30m Interference immunity against conducted variable disturbance indu • Interference immunity against conducted variable disturbance indu • Interference immunity against high frequency current feed acc. to IEC 61000-4-6 • Interference immunity against high-frequency radiation acc. to IEC 61000-4-6 — Test voltage at 80% amplitude modulation with 1kHz in the range 9 kHz to 80 MHz Emission of radio interference • Limit class A, for use in industrial areas Degree and class of protection IP degree of protection Standards, approvals, certificates	80 to 1000 MHz, 10 V/m, 1.4 to 2.0 GHz, 3 V/m, 2.0 to 2.7 GHz, 1 V/m(in the range of 87 MHz to 187 MHz, 174 MHz to 230 MHz and 470 MHz to 790 MHz: 3V/m) Yes; 2 kV acc. to IEC 61000-4-4, burst Yes; ±2 kV acc. to IEC 61000-4-4, Burst Yes; With upstream protective element 2 kV 2 kV ced by high-frequency fields Yes Yes; 10 V/m, with 80% amplitude modulation at 1 kHz 10 V Interference emission to EN 50081-2, testing to EN 55011, Class A, Group 1 Yes IP20

• Operation at 25 °C without condensation, max.	95 %
Dimensions	
Width	45 mm
Height	100 mm
Depth	81 mm
Weights	
Weight, approx.	201.9 g

last modified:

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