

SIMATIC S7-200 SMART, Digital output EM DT16 16 DO, 24 VDC, Transistor 0.75A



### General information

Product type designation	SM DT16, DQ 16x24 V DC/0.75 A
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### 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

from backplane bus 5 V DC, typ.	135 mA
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### Digital inputs

Number of digital inputs	0
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### Digital outputs

Number of digital outputs	16
• in groups of	4
Current-sinking	No
Current-sourcing	Yes
Short-circuit protection	No
Controlling a digital input	Yes

<b>Switching capacity of the outputs</b>	
• with resistive load, max.	0.75 A
• on lamp load, max.	5 W
<b>Output voltage</b>	
• Rated value (DC)	24 V
• for signal "0", max.	0.1 V
• for signal "1", min.	20 V DC
<b>Output current</b>	
• for signal "1" rated value	0.75 A
• for signal "1" permissible range, max.	0.75 A
• for signal "1" permissible range for 0 to 40 °C, max.	750 mA
• for signal "0" residual current, max.	10 µA
<b>Output delay with resistive load</b>	
• "0" to "1", max.	50 µs
• "1" to "0", max.	200 µs
<b>Cable length</b>	
• shielded, max.	500 m
• unshielded, max.	150 m
<b>Interrupts/diagnostics/status information</b>	
<b>Diagnostics indication LED</b>	
• for status of the outputs	Yes
<b>Potential separation</b>	
<b>Potential separation digital outputs</b>	
• between the channels	Yes; Optocoupler
<b>Isolation</b>	
Isolation tested with	500V AC for 1 minute
<b>EMC</b>	
<b>Interference immunity against conducted variable disturbance induced by high-frequency fields</b>	
• Interference immunity against high frequency current feed acc. to IEC 61000-4-6	Yes; 10 V, 150 kHz to 80 MHz (to IEC 61000-4-6)
• Interference immunity against high-frequency radiation acc. to IEC 61000-4-6	Yes; 10 V/m, with 80% amplitude modulation at 1 kHz
— Test voltage at 80% amplitude modulation with 1kHz in the range 9 kHz to 80 MHz	10 V
<b>Emission of radio interference acc. to EN 55 011</b>	
• Emission of radio interference	Interference emission to EN 50081-2, testing to EN 55011, Class A, Group 1
• Limit class A, for use in industrial areas	Yes; EN 61000-6-4, interference emission: Intended for use in industrial areas.
<b>Standards, approvals, certificates</b>	

CE mark	Yes; CE marking / EC Declaration of Conformity
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### Ambient conditions

#### Free fall

- Fall height, max. 0.3 m

#### Ambient temperature during operation

- min. 0 °C
- max. 55 °C
- horizontal installation, min. 0 °C
- horizontal installation, max. 55 °C
- vertical installation, min. 0 °C
- vertical installation, max. 45 °C

#### Ambient temperature during storage/transportation

- min. -40 °C
- max. 70 °C

#### Relative humidity

- Operation at 25 °C without condensation, max. 95 %

### Dimensions

Width	45 mm
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Height	100 mm
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Depth	81 mm
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### Weights

Weight, approx.	186 g
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<b>last modified:</b>	07/01/2020
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