

SIMATIC S7, DIGITAL INPUT SM 326, 24 DI; DC 24V, 40 PIN,
FAILSAFE DIGITAL INPUTS FOR SIMATIC S7F SYSTEMS, WITH
DIAGNOST. INTERRUPT

Supply voltage

Rated value (DC)	24 V
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Input current

from load voltage L+ (without load), max.	450 mA
from backplane bus 5 V DC, max.	100 mA

Encoder supply

Number of outputs	4; Isolated
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Output current

• Rated value	400 mA
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Power loss

Power loss, typ.	10 W
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Digital inputs

Number of digital inputs	24
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Number of simultaneously controllable inputs

all mounting positions

— up to 40 °C, max.	24
— up to 60 °C, max.	24; (at 24 V) or 18 (at 28.8 V)

Input voltage

• Rated value (DC)	24 V
• for signal "0"	-30 to +5V
• for signal "1"	+11 to +30V

Input current

• for signal "0", max. (permissible quiescent current)	2 mA
• for signal "1", typ.	10 mA

Input delay (for rated value of input voltage)

for standard inputs

— at "0" to "1", max.	3.4 ms
— at "1" to "0", max.	3.4 ms

Cable length

• shielded, max.	200 m
• unshielded, max.	100 m

Encoder

Connectable encoders	
<ul style="list-style-type: none"> • 2-wire sensor — permissible quiescent current (2-wire sensor), max. 	<p>Yes; if short-circuit test is deactivated</p> <p>2 mA</p>
Interrupts/diagnostics/status information	
Diagnostics function	Yes
Alarms	
<ul style="list-style-type: none"> • Diagnostic alarm 	Yes
Diagnostic messages	
<ul style="list-style-type: none"> • Diagnostic information readable 	Yes
Diagnostics indication LED	
<ul style="list-style-type: none"> • Fail-safe operation • Group error SF (red) 	<p>Yes</p> <p>Yes</p>
Ex(i) characteristics	
Maximum values of input circuits (per channel)	
<ul style="list-style-type: none"> • Ta (permissible ambient temperature), max. 	60 °C
Potential separation	
Potential separation digital inputs	
<ul style="list-style-type: none"> • between the channels • between the channels, in groups of • between the channels and backplane bus 	<p>Yes</p> <p>12</p> <p>Yes</p>
Isolation	
Isolation tested with	500 V DC/350 V AC
Standards, approvals, certificates	
Highest safety class achievable in safety mode	
<ul style="list-style-type: none"> • acc. to DIN VDE 0801 • acc. to EN 954 • SIL acc. to IEC 61508 	<p>AK 6</p> <p>Cat. 4</p> <p>SIL 3</p>
Connection method	
required front connector	40-pin
Dimensions	
Width	80 mm
Height	125 mm
Depth	120 mm
Weights	
Weight, approx.	442 g
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