



Figure similar

\*\*\*Spare part\*\*\* SIMATIC S7, Digital input SM 326, 8 DI; 24 V DC, NAMUR, fail-safe NAMUR input for SIMATIC S7F systems, up to Category 4 (EN 954-1)/ SIL3 (IEC61508)/PLE (ISO13849), 1x 40-pole

Supply voltage	
Rated value (DC)	24 V
Reverse polarity protection	Yes
Input current	
from load voltage L+ (without load), max.	160 mA
from backplane bus 5 V DC, max.	90 mA
Encoder supply	
Number of outputs	8
Type of output voltage	8.2 V DC
Power loss	
Power loss, typ.	4.5 W
Digital inputs	
Number of digital inputs	8; 8 (one-channel); 4 (two-channel)
Number of simultaneously controllable inputs	
all mounting positions	
— up to 40 °C, max.	8; vertical setup
— up to 60 °C, max.	8; horizontal set up
Input voltage	
• Type of input voltage	DC
• Rated value (DC)	in accordance with DIN 19234 or NAMUR
Input current	
• for signal "0", max. (permissible quiescent current)	0.35 to 1.2 mA
• for signal "1", typ.	2.1 to 7 mA
Input delay (for rated value of input voltage)	
for NAMUR inputs	
— at "0" to "1", max.	1.2 to 3 ms
— at "1" to "0", max.	1.2 to 3 ms
Cable length	
• shielded, max.	200 m
• unshielded, max.	100 m
Interrupts/diagnostics/status information	
Alarms	
• Diagnostic alarm	Yes
Diagnoses	
• Diagnostic information readable	Yes
Diagnostics indication LED	
• Fail-safe operation	Yes
• Group error SF (red)	Yes
Ex(I) characteristics	

Module for Ex(i) protection	Yes
<b>maximum values for connecting terminals for gas group IIC</b>	
<ul style="list-style-type: none"> <li>• Uo (no-load voltage), max.</li> <li>• Io (short-circuit current), max.</li> <li>• Po (power output), max.</li> <li>• Co (permissible external capacity), max.</li> <li>• Lo (permissible external inductivity), max.</li> <li>• Um (voltage at non-intrinsically safe connecting terminals), max.</li> </ul>	<ul style="list-style-type: none"> <li>10 V</li> <li>13.9 mA</li> <li>33.1 mW</li> <li>3 µF</li> <li>80 mH</li> <li>60 V DC/30 V AC</li> </ul>
<b>Potential separation</b>	
<b>Potential separation digital inputs</b>	
<ul style="list-style-type: none"> <li>• between the channels</li> <li>• between the channels and backplane bus</li> <li>• between the channels and the power supply of the electronics</li> </ul>	<ul style="list-style-type: none"> <li>Yes</li> <li>Yes</li> <li>Yes</li> </ul>
<b>Isolation</b>	
Isolation tested with	500 V DC
<b>Standards, approvals, certificates</b>	
<b>Highest safety class achievable in safety mode</b>	
<ul style="list-style-type: none"> <li>• acc. to DIN VDE 0801</li> <li>• acc. to EN 954</li> <li>• Performance level according to ISO 13849-1</li> <li>• SIL acc. to IEC 61508</li> </ul>	<ul style="list-style-type: none"> <li>AK 4 (one channel), AK 5 und 6 (two channel)</li> <li>4</li> <li>e</li> <li>SIL 2 (single-channel), SIL 3 (two-channel)</li> </ul>
<b>Use in hazardous areas</b>	
<ul style="list-style-type: none"> <li>• ATEX certificate</li> </ul>	99 ATEX 2671 X
<b>Ambient conditions</b>	
<b>Ambient temperature during operation</b>	
<ul style="list-style-type: none"> <li>• max.</li> </ul>	60 °C
<b>connection method</b>	
required front connector	40-pin
<b>Dimensions</b>	
Width	80 mm
Height	125 mm
Depth	120 mm
<b>Weights</b>	
Weight, approx.	482 g

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