SIEMENS

Data sheet 6ES7141-5BF00-0BL0



SIMATIC ET 200AL, IO-Link, DI 8x 24 V DC, 8x M8, Degree of protection IP67 $\,$

Product type designation HW functional status	IO Link DI 9x24VDC
HW functional status	IO-Link DI 8x24VDC
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Firmware version	V1.0.x
Vendor identification (VendorID)	42
Device identifier (DeviceID)	229379
Engineering with	
• IODD file	Yes
Supply voltage	
Load voltage 1L+	
Rated value (DC)	24 V; Supply from 1Us+ of the IO-Link master
• permissible range, lower limit (DC)	18 V
 permissible range, upper limit (DC) 	30 V
Reverse polarity protection	Yes; Against destruction; encoder power supply outputs applied with reversed polarity
Input current	
Current consumption (rated value)	15 mA; without load
Encoder supply	
Number of outputs	8; Supply from 1Us+ of the IO-Link master
24 V encoder supply	
Short-circuit protection	Yes; per module, electronic
Output current, max.	0.7 A; Total current of all encoders (depending on IO-Link master supply via 1Us+)
Power loss	
Power loss, typ.	1.5 W
Digital inputs	
Number of digital inputs	8
Input characteristic curve in accordance with IEC 61131, type 3	Yes
Number of simultaneously controllable inputs	
all mounting positions	
— up to 55 °C, max.	8
Input voltage	
Rated value (DC)	24 V
• for signal "0"	-30 to +5 V
• for signal "1"	+11 to +30V
Input current	
● for signal "1", typ.	3 mA
Input delay (for rated value of input voltage)	
for standard inputs	

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— at "0" to "1", min.	1.2 ms
— at "0" to "1", max.	4.8 ms
— at "1" to "0", min.	1.2 ms
— at "1" to "0", max.	4.8 ms
Cable length	
• unshielded, max.	30 m
Encoder	
Connectable encoders	
• 2-wire sensor	Yes
 permissible quiescent current (2-wire sensor), 	1.5 mA
max.	
IO-Link	
IO-Link protocol 1.1	Yes
Transmission rate	38.4 kBd (COM2)
Cycle time, min.	2.1 ms
Size of process data, input per module	1 byte
Size of process data, output per module	0 byte
Supported IO-Link profiles	common profile
Cable length unshielded, max.	20 m
Connection of IO-Link devices	
Port type A	Yes
Interrupts/diagnostics/status information	
Alarms	
Diagnostic alarm	Yes; Parameterizable
Diagnoses	
Short-circuit	Yes; Sensor supply to M; module by module
Diagnostics indication LED	
Channel status display	Yes; green LED
for module diagnostics	Yes; green/red LED
Potential separation	
Potential separation channels	
 between the channels 	No
 between the channels and the power supply of the 	No
electronics	
Isolation	
Isolation tested with	707 V DC (type test)
Degree and class of protection	
IP degree of protection	IP65/67
Ambient conditions	
Ambient temperature during operation	
• min.	-30 °C
• max.	55 °C
connection method / header	
Design of electrical connection for the inputs and outputs	M8, 3-pole
Type of electrical connection for IO-Link	M12, 5-pin, A-coded
Dimensions	
Width	30 mm
Height	159 mm
Depth	40 mm
Weights	
Weight, approx.	124 g
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last modified:	9/24/2021 🗗