

Data sheet

6ES7650-8DK70-0AA0

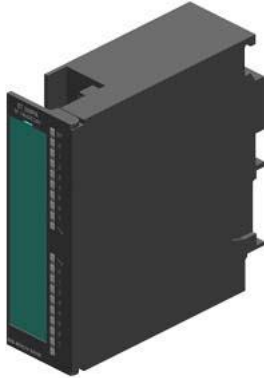


Figure similar

ET 200PA SMART, digital input isolated, 16 DI, 24 V DC, 1 x 20-pole diagnostics, IM 650-8PH required

General information	
Product function	
• Isochronous mode	No
Supply voltage	
Load voltage L+	
• Rated value (DC)	24 V
• Reverse polarity protection	Yes
Input current	
from load voltage L+ (without load), max.	90 mA
from backplane bus 5 V DC, max.	130 mA
Encoder supply	
Number of outputs	2
Type of output voltage	L+ (-2.5 V)
Short-circuit protection	Yes; Electronic
additional (redundant) feed	Yes
Output current	
• Rated value	120 mA
• permissible range, lower limit	0 mA
• permissible range, upper limit	150 mA
Power loss	
Power loss, typ.	4 W
Digital inputs	
Number of digital inputs	16
Input characteristic curve in accordance with IEC 61131, type 2	Yes
Number of simultaneously controllable inputs	
horizontal installation	
— up to 40 °C, max.	16
— up to 60 °C, max.	16
vertical installation	
— up to 40 °C, max.	16
Input voltage	
• Rated value (DC)	24 V
• for signal "0"	-30 to +5 V
• for signal "1"	13 to 30V
Input current	
• for signal "1", typ.	7 mA
Input delay (for rated value of input voltage)	
for standard inputs	

— parameterizable	Yes; 0.1 / 0.5 / 3 / 15 / 20 ms	
Encoder connection		
• Fixed current limitation for wire-break monitoring, min.	10 kΩ	
• Fixed current limitation for wire-break monitoring, max.	18 kΩ	
Cable length		
• shielded, max.	1 000 m	
• unshielded, max.	600 m	
Encoder		
Connectable encoders		
• 2-wire sensor	Yes	
— permissible quiescent current (2-wire sensor), max.	2 mA	
Interrupts/diagnostics/status information		
Diagnostics function	Yes; Parameterizable	
Alarms		
• Diagnostic alarm	Yes; Parameterizable	
Diagnoses		
• Diagnostic information readable	Yes	
• Wire break	Yes; to I < 1 mA	
• Missing encoder supply	Yes	
• Missing external auxiliary voltage L+	Yes	
Diagnostics indication LED		
• Group error SF (red)	Yes	
• Status indicator digital input (green)	Yes	
• Encoder supply Vs (green)	Yes	
Potential separation		
Potential separation digital inputs		
• between the channels	No	
• between the channels and backplane bus	Yes; Optocoupler	
Permissible potential difference		
between different circuits	75 V DC/60 V AC	
Isolation		
Isolation tested with	500 V DC	
Connection method		
required front connector	20-pin	
Dimensions		
Width	40 mm	
Height	125 mm	
Depth	117 mm	
Weights		
Weight, approx.	200 g	
Classifications		
	Version	Classification
eClass	14	27-24-26-04
eClass	12	27-24-26-04
eClass	9.1	27-24-26-04
eClass	9	27-24-26-04
eClass	8	27-24-26-04
eClass	7.1	27-24-26-04
eClass	6	27-24-26-04
ETIM	10	EC001599
ETIM	9	EC001599
ETIM	8	EC001599
ETIM	7	EC001599
IDEA	4	3566
UNSPSC	15	32-15-17-05
Approvals / Certificates		

General Product Approval

For use in hazardous locations



[China RoHS](#)

[Manufacturer Declaration](#)



last modified:

6/7/2025 

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