



SIPLUS ET 200S EM 8 DI 24 V DC based on 6ES7131-4BF50-0AA0 with conformal coating, -40...+70 °C,

General information	
Product function	
• Isochronous mode	Yes
Supply voltage	
Rated value (DC)	24 V; From power module
Reverse polarity protection	Yes
Input current	
from supply voltage L+, max.	Dependent on encoder
Power loss	
Power loss, typ.	1.2 W
Digital inputs	
Number of digital inputs	8
Input characteristic curve in accordance with IEC 61131, type 1	Yes
Input voltage	
• Type of input voltage	DC
• Rated value (DC)	24 V
• for signal "0"	-5 to +30V
• for signal "1"	-15 to -30 V
Input current	
• for signal "1", typ.	6 mA; at 24 V
Input delay (for rated value of input voltage)	
for standard inputs	
— parameterizable	No
— at "0" to "1", min.	2 ms
— at "0" to "1", max.	4.5 ms
— at "1" to "0", min.	2 ms
— at "1" to "0", max.	4.5 ms
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.	1.5 mA
Interrupts/diagnostics/status information	
Diagnostics function	No
Diagnostics indication LED	
• Group error SF (red)	No
• Status indicator digital input (green)	Yes; per channel

Potential separation			
Potential separation digital inputs			
<ul style="list-style-type: none">• between the channels	No		
<ul style="list-style-type: none">• between the channels and backplane bus	Yes		
Isolation			
Isolation tested with	500 V DC		
Standards, approvals, certificates			
CE mark	Yes		
Ambient conditions			
Ambient temperature during operation			
<ul style="list-style-type: none">• min.	-40 °C; = Tmin		
<ul style="list-style-type: none">• max.	70 °C; = Tmax		
Altitude during operation relating to sea level			
<ul style="list-style-type: none">• Installation altitude above sea level, max.	5 000 m		
<ul style="list-style-type: none">• Ambient air temperature-barometric pressure-altitude	Tmin ... Tmax at 1 140 hPa ... 795 hPa (-1 000 m ... +2 000 m) // Tmin ... (Tmax - 10 K) at 795 hPa ... 658 hPa (+2 000 m ... +3 500 m) // Tmin ... (Tmax -20 K) at 658 hPa ... 540 hPa (+3 500 m ... +5 000 m)		
Relative humidity			
<ul style="list-style-type: none">• With condensation, tested in accordance with IEC 60068-2-38, max.	100 %; RH incl. condensation/frost permitted (no commissioning in bedewed state)		
Resistance			
Use in stationary industrial systems			
<ul style="list-style-type: none">— to biologically active substances according to EN 60721-3-3	Yes; Class 3B2 mold, fungus and dry rot spores (with the exception of fauna); Class 3B3 on request		
<ul style="list-style-type: none">— to chemically active substances according to EN 60721-3-3	Yes; Class 3C4 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); *		
<ul style="list-style-type: none">— to mechanically active substances according to EN 60721-3-3	Yes; Class 3S4 incl. sand, dust, *		
Use on ships/at sea			
<ul style="list-style-type: none">— to biologically active substances according to EN 60721-3-6	Yes; Class 6B2 mold and fungal spores (excluding fauna); Class 6B3 on request		
<ul style="list-style-type: none">— to chemically active substances according to EN 60721-3-6	Yes; Class 6C3 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); *		
<ul style="list-style-type: none">— to mechanically active substances according to EN 60721-3-6	Yes; Class 6S3 incl. sand, dust; *		
Usage in industrial process technology			
<ul style="list-style-type: none">— Against chemically active substances acc. to EN 60654-4	Yes; Class 3 (excluding trichlorethylene)		
<ul style="list-style-type: none">— Environmental conditions for process, measuring and control systems acc. to ANSI/ISA-71.04	Yes; Level GX group A/B (excluding trichlorethylene; harmful gas concentrations up to the limits of EN 60721-3-3 class 3C4 permissible); level LC3 (salt spray) and level LB3 (oil)		
Remark			
<ul style="list-style-type: none">— Note regarding classification of environmental conditions acc. to EN 60721, EN 60654-4 and ANSI/ISA-71.04	* The supplied plug covers must remain in place over the unused interfaces during operation!		
Dimensions			
Width	15 mm		
Height	81 mm		
Depth	52 mm		
Weights			
Weight, approx.	35 g		
Classifications			
		Version	Classification
	eClass	16	27-24-26-04
	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



EMV

For use in hazardous locations



last modified:

5/13/2024 