

SIPLUS ET 200S EM 4DI HF -25...+70 °C based on 6ES7131-4BD01-0AB0 5 units per packing unit



Supply voltage	
Rated value (DC)	
<ul style="list-style-type: none"> <li>• 24 V DC</li> </ul>	Yes; From power module
Reverse polarity protection	Yes
Input current	
from supply voltage L+, max.	Dependent on encoder
from backplane bus 3.3 V DC, max.	10 mA
Encoder supply	
Type of output voltage	min. L+ (-0.5 V), under load
Short-circuit protection	Yes; Electronic
Output current	
<ul style="list-style-type: none"> <li>• Rated value</li> <li>• permissible range, lower limit</li> <li>• permissible range, upper limit</li> </ul>	500 mA 0 mA 500 mA
Power loss	
Power loss, typ.	0.7 W
Address area	

<b>Address space per module</b>	
• with packing	4 bit
• without packing	1 byte
<b>Digital inputs</b>	
Number of digital inputs	4
Input characteristic curve in accordance with IEC 61131, type 1	Yes
<b>Input voltage</b>	
• Type of input voltage	DC
• Rated value (DC)	24 V
• for signal "0"	-30 to +5V
• for signal "1"	+11 to +30V
<b>Input current</b>	
• for signal "1", typ.	8 mA
<b>Input delay (for rated value of input voltage)</b>	
for standard inputs	
— parameterizable	Yes; 0.1 / 0.5 / 3 / 15 ms
— at "0" to "1", min.	0.05 / 0.4 / 2.7 / 14.85
— at "0" to "1", max.	0,15 / 0,6 / 3,3 / 15,15
— at "1" to "0", min.	0.05 / 0.4 / 2.7 / 14.85
— at "1" to "0", max.	0,15 / 0,6 / 3,3 / 15,15
<b>Cable length</b>	
• shielded, max.	1 000 m
• unshielded, max.	600 m
<b>Encoder</b>	
<b>Connectable encoders</b>	
• 2-wire sensor	Yes
— permissible quiescent current (2-wire sensor), max.	1.5 mA
<b>Interrupts/diagnostics/status information</b>	
Diagnostic functions	Yes
<b>Diagnostic messages</b>	
• Short-circuit	Yes; Short-circuit of outputs to ground; module by module
<b>Diagnostics indication LED</b>	
• Group error SF (red)	Yes
• Status indicator digital input (green)	Yes; per channel
<b>Parameter</b>	
Remark	3 byte
Diagnostics short-circuit	Disable / enable
<b>Potential separation</b>	

<b>Potential separation digital inputs</b>	
• between the channels	No
• between the channels and backplane bus	Yes
<b>Permissible potential difference</b>	
between different circuits	75 V DC/60 V AC
<b>Isolation</b>	
Isolation tested with	500 V DC
<b>Standards, approvals, certificates</b>	
CE mark	Yes
<b>Ambient conditions</b>	
<b>Ambient temperature during operation</b>	
• min.	-25 °C; = Tmin
• max.	70 °C; = Tmax
<b>Altitude during operation relating to sea level</b>	
• Installation altitude above sea level, max.	5 000 m
• 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)
<b>Relative humidity</b>	
• With condensation, tested in accordance with IEC 60068-2-38, max.	100 %; RH incl. condensation/frost permitted (no commissioning in bedewed state)
<b>Resistance</b>	
<b>Use in stationary industrial systems</b>	
— 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
— 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); *
— to mechanically active substances according to EN 60721-3-3	Yes; Class 3S4 incl. sand, dust, *
<b>Use on ships/at sea</b>	
— to biologically active substances according to EN 60721-3-6	Yes; Class 6B2 mold and fungal spores (excluding fauna); Class 6B3 on request
— 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); *
— to mechanically active substances according to EN 60721-3-6	Yes; Class 6S3 incl. sand, dust; *
<b>from supply voltage 1L+</b>	
— Note regarding classification of environmental conditions acc. to EN 60721	* The supplied plug covers must remain in place over the unused interfaces during operation!
<b>Dimensions</b>	
Width	15 mm

Height	81 mm
Depth	52 mm
<b>Weights</b>	
Weight, approx.	35 g
<b>last modified:</b>	05/16/2018