

SIPLUS ET200S EM 2 PULSE -25 ... +70 DEGREES C WITH CONFORMAL COATING BASED ON 6ES7138-4DD01-0AB0 . ELECTRONIC MODULE 2 PULSE PULSEGENERATOR AND TIMER MODULE, 15 MM WIDE, 2 CHANNELS



Figure similar

Supply voltage	
Load voltage L+	
• Rated value (DC)	24 V; From power module
• Reverse polarity protection	Yes
Input current	
from load voltage L+ (without load), max.	40 mA
from backplane bus 3.3 V DC, max.	10 mA
Encoder supply	
Type of output voltage	L+ (-0.8 V)
Short-circuit protection	Yes
Output current	
• Rated value	500 mA
Power loss	
Power loss, typ.	1.8 W
Digital inputs	
Number of digital inputs	2

Input characteristic curve in accordance with IEC 61131, type 2	Yes
Input voltage	
• Rated value (DC)	24 V
• for signal "0"	-30 to +5V
• for signal "1"	+11 to +30V
Input current	
• for signal "1", typ.	9 mA
Input delay (for rated value of input voltage)	
• Input frequency (with a time delay of 0.1 ms), max.	20 kHz
• Minimum pulse width for program reactions	100 µs
Cable length	
• shielded, max.	100 m
Digital outputs	
Number of digital outputs	2
Short-circuit protection	Yes
• Response threshold, typ.	10 A
Limitation of inductive shutdown voltage to	L+ (-50 to -65 V)
Controlling a digital input	Yes
Accuracy of pulse duration	+/- (time period x 100 ppm), +/-100 µs with a load <= 50 ohms
minimum pulse duration	100 µs
Switching capacity of the outputs	
• on lamp load, max.	10 W
Output voltage	
• for signal "1", min.	L+ (-1 V)
Output current	
• for signal "1" rated value	2 A
• for signal "1" permissible range for 0 to 60 °C, min.	7 mA
• for signal "1" permissible range for 0 to 60 °C, max.	2 A
• for signal "0" residual current, max.	0.5 mA
Output delay with resistive load	
• "0" to "1", max.	100 µs
• "1" to "0", max.	200 µs
Switching frequency	
• with resistive load, max.	5 kHz
• with inductive load, max.	2 Hz
• on lamp load, max.	10 Hz
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 indication LED

- Group error SF (red) Yes
- Status indicator digital output (green) Yes
- Status indicator digital input (green) Yes

Integrated Functions

Pulse generator

- Number of channels 2; 1 digital input and 1 digital output per channel

Potential separation

Potential separation digital inputs

- between the channels No
- between the channels and backplane bus Yes

Potential separation digital outputs

- between the channels No
- between the channels and backplane bus Yes

Permissible potential difference

between different circuits 75 V DC/60 V AC

Isolation

Isolation tested with 500 V DC

Ambient conditions

Extended ambient conditions

- relative to ambient temperature-atmospheric pressure-installation altitude Tmin ... Tmax at 1080 hPa ... 795 hPa (-1000 m ... +2000 m) // Tmin ... (Tmax - 10K) at 795 hPa ... 658 hPa (+2000 m ... +3500 m) // Tmin ... (Tmax - 20K) at 658 hPa ... 540 hPa (+3500 m ... +5000 m)

Relative humidity

- With condensation, tested in accordance with IEC 60068-2-38, max. 100 %; RH incl. condensation/frost (no commissioning under condensation conditions)

Resistance

- against biologically active substances / conformity with EN 60721-3-3 Yes; Class 3B2 mold, fungus and dry rot spores (with the exception of fauna). The supplied connector covers must remain on the unused interfaces during operation!
- against chemically active substances / conformity with EN 60721-3-3 Yes; Class 3C4 (RH < 75%) incl. salt spray according to EN 60068-2-52 (degree of severity 3). The supplied connector covers must remain on the unused interfaces during operation!

— against mechanically active substances /
conformity with EN 60721-3-3

Yes; Class 3S4 incl. sand, dust. The supplied connector covers
must remain on the unused interfaces during operation!

Dimensions

Width	15 mm
Height	81 mm
Depth	52 mm

Weights

Weight, approx.	40 g
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last modified: 10/14/2016