WURTH ELEKTRONIK MORE THAN YOU EXPECT

MICRO ICCS

Controllers





Micro ICCS are small and programmable control units shaped as a relay with 9 pins, which can be connected to the circuit board over the 9 pin relay sockets. Thanks to the MSP430 16 Bit microprocessor with flash memory, they can be used for functions such as voltage or frequency monitoring with:

- One analogue input
- Three digital inputs
- Up to two high side power outputs (alternative one relay output)
- Open collector output for signals with max 2 W

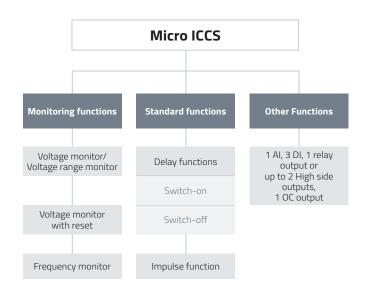
Programming

- Programming through Würth Elektronik ICS
- Micro ICCS can be configured, parameterised and programmed individually:
 - Standard functions can be set via potentiometer such delay or pulse function
 - Other functions such as monitoring function or functions, which can be realised with the available in- and outputs
 - Combination of all the functions with each other
- Creation of special programs on demand

Housing

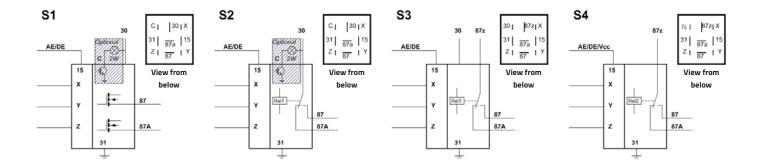


General information					
Processor type	MSP430 16 Bit with memory flash				
Dimension	30 x 30 x 40 mm				
Operating temperature	-40 °C to 85°C				
Limiting continuous current (relay output)	10 / 15 A (NC/NO)				
Semiconductor output nominal load at 87/87a	High side-output: 5 A (12 V); 3 A (24 V) or 60 W (12 V); 75 W (24 V)				
Status output C	max 2 W				
Quiescent current	250 μΑ				
EMC	95/54 EG; DIN 40839				
Ingress protection	IP 53 (without potentiometer) IP 65 achievable with specific socket				
e1-approval	03 3218				





Diagrams



- Diagrams S3/S4: Relay contact is potential free and able to switch any DC voltage
- On some versions the analogue input is replaced by a build in potentiometer (pin 15 can still be used as a digital input
- Connection: 5 male 6.3 mm faston
 4 male 2.8 mm faston

Description	Diagram	Outputs	vcc	SDK number	Part number
Micro ICCS 9–30 V	S1	1 High side	pin 30	X08112	ICS-94830
Micro ICCS 9–30 V	S1	2 High side	pin 30	X08113	ICS-94831
Micro ICCS 9-30 V	S1	1 High side and 1 Open collector	pin 30	X08232	ICS-95918
Micro ICCS 9-30 V	S1	2 High side and 1 Open collector	pin 30	X08114	ICS-94832
Micro ICCS 9–30 V	S1	2 High side and 1 Open collector with potentiometer	pin 30	X08221	ICS-95882
Micro ICCS 12 V	S2	1 Relay	pin 30	X08108	ICS-94826
Micro ICCS 12 V	S2	1 Relay and 1 Open collector	pin 30	X08115	ICS-94833
Micro ICCS 24 V	S2	1 Relay	pin 30	X08109	ICS-94827
Micro ICCS 24 V	S2	1 Relay and 1 Open collector	pin 30	X08116	ICS-94834
Micro ICCS 12 V	S3	1 Relay	pin 30	X08230	ICS-95916
Micro ICCS 24 V	S3	1 Relay	pin 30	X08231	ICS-95917
Micro ICCS 24 V	S3	1 Relay with potentiometer	pin 30	X08297	ICS-95945
Micro ICCS 12 V	S4	1 Relay	pin 15	X08110	ICS-94828
Micro ICCS 12 V	S4	1 Relay and 1 Open collector	pin 15	X08228	ICS-95914
Micro ICCS 24 V	S4	1 Relay	pin 15	X08111	ICS-94829
Micro ICCS 24 V	S4	1 Relay and 1 Open collector	pin 15	X08229	ICS-95915

IP65 Socket: ICS-102300

- Specially made relay socket for Nano / Micro series
- Efficient mounting solution for harsh environments up to IP65



This item is a standard product, please consider the relevant datasheet notes. The user is responsible for the product's functionality in its purposed system environment. Technical content may be modified and changed by Wurth Elektronik ICS GmbH & Co. KG without any notice.

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