

MICROSERIES UCVR

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The limit-value monitoring modules from the R SERIES feature two relay contacts on the output side for the alarm function.

Each product version is designed for a defined type of signal and sensor. These include analogue signals such as current, voltage, temperature (thermocouple and PT100 sensors), frequency and conductivity.

Monitoring components with temperature measurement inputs are equipped with wire break detection mechanisms.

They come standard with programmable functions for setpoint, deadband, high/low-trip switching behaviour, coil energising and a variable timer delay on each channel.

The XFAR (U/I input) features extra extensions to the standard functions. This includes an optional alarm function which can be configured in connection with various input parameters, such as a change in the signal frequency, a signal loss or for individual signal formats. The XFAR is equipped with two alarm outputs for more complex applications. Each can be attached individually. The four-character LED display can be set universally. The corresponding scaling for the input parameters is then carried out automatically.

The user-friendly menus are easy to navigate and make it easy to configure the operating parameters.

Specific parameters can be selected and changed using the keyboard and display.

The monitoring components are enclosed in a rugged, rail-mountable, metal housing and feature complete isolation at 2 kV.

General ordering data

Type	UCVR
Order No.	7940010174
Version	Process monitoring, -55...+55 mA / -55...+55 V
GTIN (EAN)	4032248565962
Qty.	1 pc(s).

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Technical data**Dimensions and weights**

Width	46 mm	Width (inches)	1.811 inch
Height	97 mm	Height (inches)	3.819 inch
Depth	120 mm	Depth (inches)	4.724 inch
Weight	493 g	Net weight	493 g

Temperatures

Humidity	0...90 % (no condensation)	Operating temperature, max.	60 °C
Operating temperature, min.	0 °C	Storage temperature, max.	70 °C
Storage temperature, min.	-25 °C	Operating temperature	0 °C...60 °C
Storage temperature	-25 °C...70 °C		

Environmental Product Compliance

REACH SVHC Lead 7439-92-1

Input

Type	Analogue current / voltage signals	Input signal	-55...+55 mA / -55...+55 V
Input resistance, voltage	1 MΩ	Input resistance, current	22 Ω
Resolution	1 μA / 1 mV per bit		

Display

Type	4 digits, red LED, 7 mm	Display range	-999...9999
Display value	Percentage or real value display	Resolution (display)	0.001 of displayed value

alarm output

Type	2 relay contacts (CO)	Switching current	1 A @ 240 V AC / 30 V DC (resistive load)
Switching thresholds	All values in display range are configurable		

General data

Input/Output	Relay output	Linearity	Linear or $\sqrt{\quad}$
Long-term drift	0.1 % / 10.000 h	Power consumption	6 W @ 24 V DC
Rail	TS 35, TS 32	Repeat accuracy	± 0.05 % of signal range
Sampling rate	5x pro s	Step response time	320 ms (10...90 %), adjustable to 250 ms...32 s
Temperature coefficient	≤ 0.02 % / °C	Voltage supply	12...50 V DC

Insulation coordination

EMC standards	DIN EN 61326	Impulse withstand voltage	4 kV (1.2/50 μs)
Insulation voltage	2 kV input / output / power supply		

Data sheet

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Connection data

Type of connection	Screw connection	Clamping range, rated connection	1.5 mm ²
Clamping range, min.	0.5 mm ²	Clamping range, max.	2.5 mm ²

Classifications

ETIM 3.0	EC001774	ETIM 4.0	EC001774
ETIM 5.0	EC001774	ETIM 6.0	EC000677
UNSPSC	30-21-18-01	eClass 6.2	27-21-09-90
eClass 7.1	27-21-09-90	eClass 8.1	27-21-09-90
eClass 9.0	27-14-31-10	eClass 9.1	27-21-03-01

Approvals

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ROHS Conform

Downloads

User Documentation [Manual](#)

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Drawings

Electric symbol

