

MEASURING TRANSDUCER MAXIMAT SHR CS



SAFETY PRECAUTIONS

- Installation, initial start-up and maintenance may only be performed by trained personnel!
- The device may only be connected to supply power specified in the technical data or on the serial plate!
- The device must be disconnected from all sources of power during installation and maintenance work!
- The device may only be operated under the conditions specified in these operating instructions!
- Do not open the housing.

DESCRIPTION

The MAXIMAT SHR CS measuring transducer is used as power supply, current band monitor and alarm relay. It serves in combination with the overflow sensors and leakage sensors included in the MAXIMAT VK..., MAXIMAT LW... and MAXIMAT C... series, as well as MAXITOP... limit switches, as a fill-level limit switch for overflow inhibitors and leakage detection systems.

TECHNICAL DATA

Power Supply	230V AC $\pm 10\%$; 50...60Hz; optional 24V DC $\pm 10\%$
Note	The device may only be connected to supply power via an electrical disconnecting device which is located in close proximity.
Power consumption	approx. 3VA / approx. 3W
Ambient temperature	-20...+60 °C
Housing	IP40, 22,5x75x110mm, for top-hat rail 35x7,5mm, DIN EN 50 022
Caution	Contact protection per DIN EN 61010-1 is only assured when installed to a closed switch cabinet or housing with at least IP54 protection!
Terminals	Screw terminal for wire gauge of up to 2.5mm ²
Relay output	potential-free double changeover contact max. 250V AC; max. 115V DC, max. 3A AC; max. 0.5A DC, min. load 10mA at 5V DC
Caution	Contacts are not protected against overload, use external protective device!
Time delay	0.3...3s adjustable
Measuring circuit	max. 300m, min. wire cross-section 0.5mm ²
Signaling	

	LED (green)	Operation
	LED (green)	Relay operated
	LED (red)	Overflow alarm
	LED (red)	Measuring circuit interrupted
	LED (red)	Short-circuit

CE mark: The device fulfills the legal requirements of applicable EU-guidelines

BAMO INTERNATIONAL

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**MEASURING TRANSDUCER
MAXIMAT SHR CS**

21-05-2021

M-555.06-EN-AB

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DIBT-CERTIFICATION

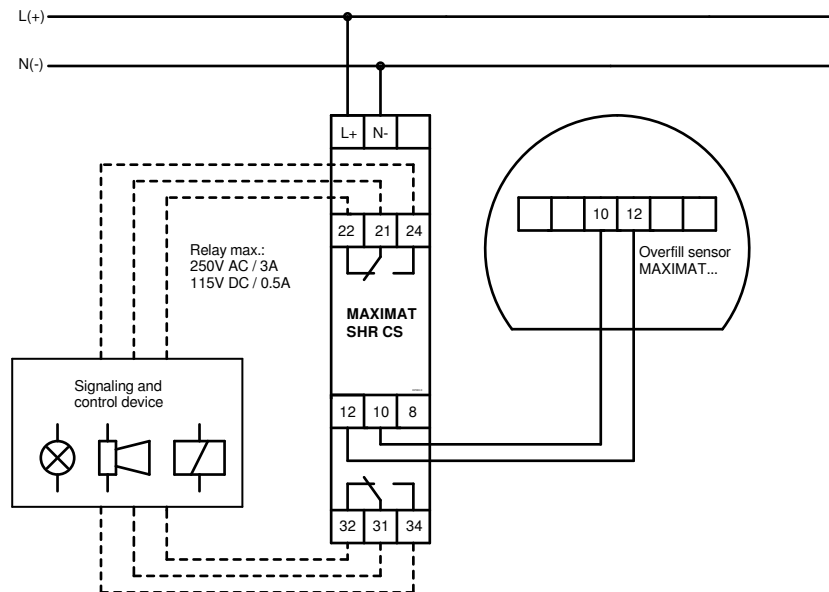
The MAXIMAT SHR CS measuring transducer is part of the certification numbers Z-65.11-122, Z-65.13-494 and Z-65.40-496 in combination with MAXIMAT overflow sensors and leakage sensors in accordance with the German Water Resources Act (WHG).

Note: Observe the General Construction Regulatory Certification of the connected overflow or leakage sensor!

ELECTRICAL CONNECTION

Function	Terminal Designation
Power supply (+V DC)	L (+)
Power supply (-V DC)	N (-)
Alarm relay (root1)	21
Alarm relay (NC1)	22
Alarm relay (NO1)	24
Alarm relay (Wurzel2)	31
Alarm relay (NC2)	32
Alarm relay (NO2)	34
Sensor connections: See corresponding operating instructions for overflow sensors or leakage sensors.	
Sensor (shield)	(8)* Not necessary with some sensors
Sensor +	10 or +POWER for CX series
Sensor -	12 or -POWER for CX series

Power supply with overcurrent protection device



SELF MONITORING

The device functions in accordance with the closed-circuit principle. In the event of a defective overflow sensor, measuring cable or measuring transducer, the output relay is released and an alarm is triggered.

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



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


CONTACT STATUSES RELAY OUTPUTS

Operating State	Relay	Changeover Contact
No alarm	Operated	21 and 24 respectively 31 and 34 closed
Alarm, malfunction, power failure	Released	21 and 22 respectively 31 and 32 closed

CURRENT MEASURING CIRCUIT

Function	LED	Current Range
Relay operated		18...40mA
Overflow alarm		10...18mA
Interrupted circuit		<7mA
Short-circuit		>40mA

TROUBLESHOOTING

Error	Cause
 Operating LED (green) doesn't light up	<ul style="list-style-type: none">No supply voltageDefective device
 Interrupted circuit LED (red) lights up	<ul style="list-style-type: none">Interrupted measurement cableDefective overflow sensorReversed polarity at overflow sensor
 Short-circuit LED (red) lights up	<ul style="list-style-type: none">Short-circuited measurement cableDefective overflow sensor
Delayed device response	<ul style="list-style-type: none">Time delay set too high

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