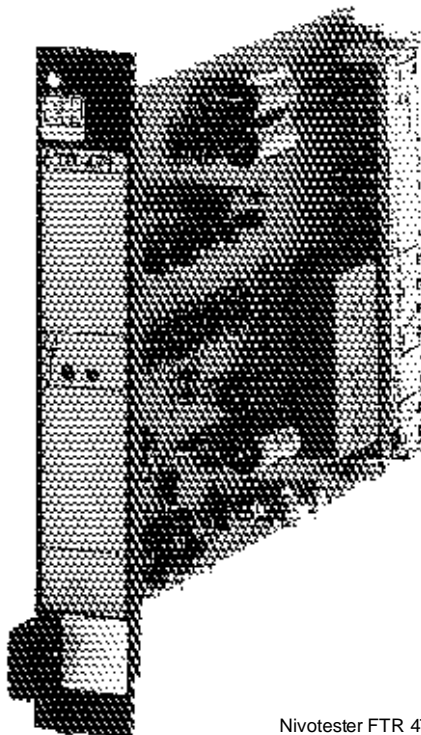


Microwave Barrier *nivotester FTR 471*

Operating Instructions
Part No. 017290-1000

Switching instrument for the microwave barriers QR/DR 10 and QR/DR 30



Nivotester FTR 471

Applications

The Nivotester FTR 471 is used as a switching instrument for the microwave barriers QR/DR 10 or QR/DR 30.

The Nivotester FTR 471 is in Racksyst Eurocard format with a width of 4 HP.

More information on microwave barriers can be found in the Technical Information TI 188F/00/e for QR/DR 10 and in the Technical Information TI 012F/00/e for QR/DR 30.

Method of operation

Power for the microwave barrier is supplied by the Nivotester FTR 471.*

The signal coming from the microwave barrier activates an output relay in the Nivotester.

The following operating modes can be set:

- switching delay of the output relay up to 20 s
- switching delay when the relay de-energises or energises
- minimum or maximum fail-safe
 - minimum fail-safe: the relay de-energises when the microwave path is clear or when the power supply fails.
 - maximum fail-safe: the relay de-energises when the microwave path is interrupted or when the power supply fails.

Two LEDs on the front panel indicate the switching status.

* The power pack unit in the »Monorack« supplies power to the entire measuring system.

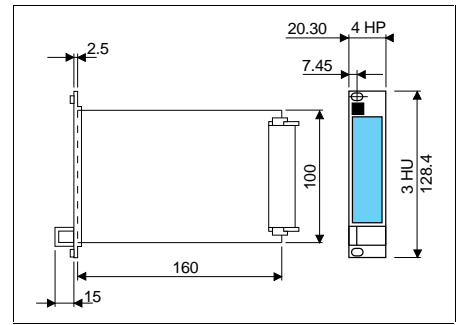
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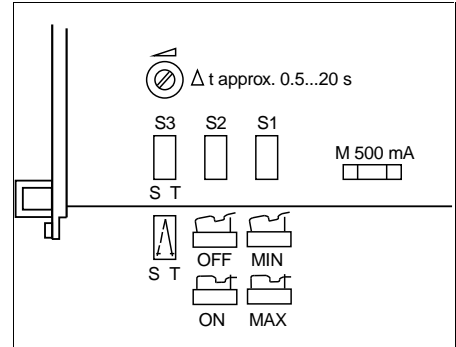


Technical Data

- Mechanical construction:
Racksyst plug-in board, width: 4 HP
Eurocard format
- Plug connection:
Multipin strip to DIN 41612
Type F (28-pole)
- Front panel: black plastic with handle
and blue operating area
- Ingress protection to DIN 40050:
Front panel IP 20, Plug-in card IP 00
- Dimensions: see diagram
- Weight: 0.15 kg
- Permissible ambient temperature:
0 °C...70 °C
- Storage temperature: -20 °C...+85 °C
- Electromagnetic compatibility:
Interference emission to EN 50 081-1,
Interference immunity to EN 50 082-1
- Power supply: 24 V DC ± 4 V
- Current consumption: max. 160 mA
- Output:
Relay with 2 potential-free
change-over contacts 250 V AC,
2.5 A, 300 VA
100 V DC, 100 W
- Switching delay approx.: 0.5...20 s,
energised or de-energised

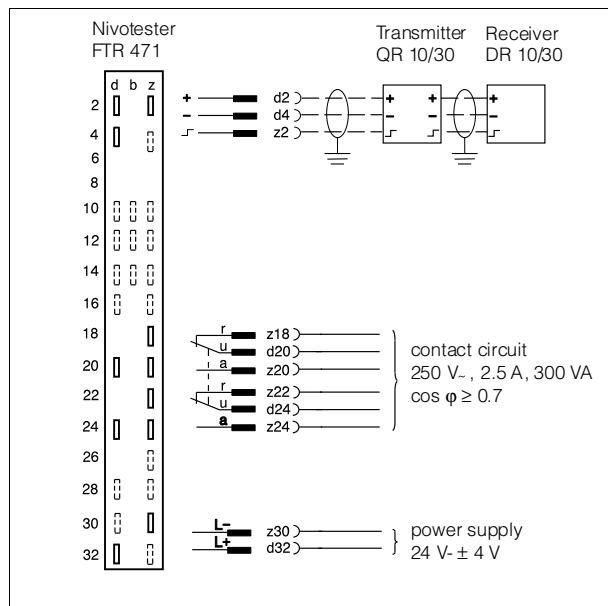


Dimensions of the
FTR 471



Hook switches and
calibration units for
setting the switching
delay:

- S1 Fail-safe switching mode
- S2 switching delay ON/OFF
- S3 S= switching delay when relay de-energises
- T= switching delay when relay energises
- ⌚ Switching delay time
Turning in a clockwise direction
= increase in switching delay



Connecting diagram for
the FTR 471

Endress+Hauser
GmbH+Co.
Instruments International
P.O. Box 2222
D-79574 Weil am Rhein
Germany

Tel. (07621) 975-02
Tx 773926
Fax (07621) 975345

Endress+Hauser

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