



## TEMPERATURE MICRORELAY, type mRT



### DESCRIPTION

It is an element that signals the reading of a certain temperature in the environment where it was placed in.

As an element of execution, the microrelay for temperature has the function of a normal open contact, made of a thermobimetallic thin plate and an axial eccentric landmark, both equipped with silver contact pills; the variable distance between them is adjusted by the producer, at the temperature level that needs to be signaled.

### TECHNICAL DATA

Prescribed temperature field :

- (+50 ... +120)°C – for capsules 15 m long ;
- (+30 ... +150)°C – for capsules 20 m long;

Precision of contact opposed to prescribed temperature : 25°C

- ± 5°C – in case prescribed temperature is not exceeded ;
- ± 8°C – in case prescribed temperature is exceeded .

Response time for applying a signal to the temperature level :

- mRT 1,4 b(c).XXX : max. 64 sec. ;
- mRT 2b(c).XXX : max. 140 sec. ;
- mRT 3b(c).XXX : max. 160 sec. .

Connection frequency : :

- 8 connections per hour - variant 1, 4 ;
- 8,5 connections per hour - variant 2 ;
- 7,5 connections per hour - variant 3.

Maximum voltage on contact : max. 24 Vcc/ca

Electricity through contact :

- in the case of resistive charges in c.c. : max. 0,240 A
- in the case of inductive charges in c.c. : max. 0,125 A
- in the case of inductive charges in c.a. (50 ... 60) Hz : max. 0,150 A

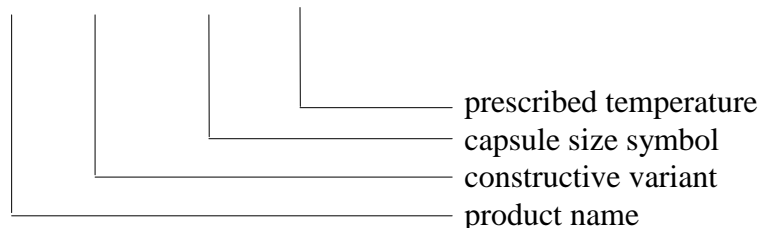
Normal protection level : IP 65 cf. SR EN 60529:1995

Weight : max. 14 g

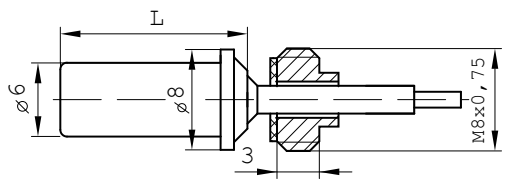
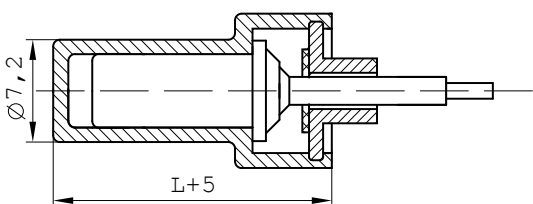
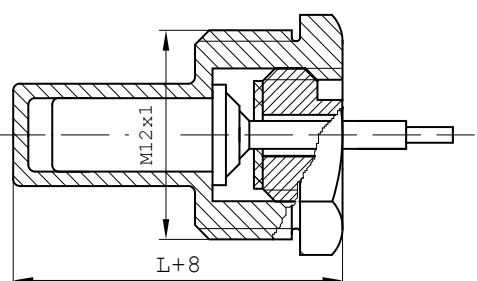
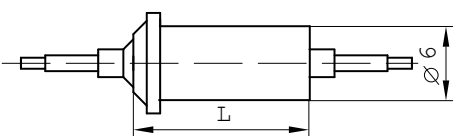
### ORDERING

As is shown below :

mRT   XXX



Ex.: mRT 1 c 100 – Microrelay for temperature mRT type with threaded cork, capsule size 20 mm for 100°C

<i>Constructive variant</i>	<i>Symbol</i>	<i>L (mm)</i>	<i>Symbol</i>	<i>Product symbol</i>
<ul style="list-style-type: none"> <li>● mRT with threaded cork</li> </ul> 	1	15	b	mRT-1b.XXX
		20	c	mRT-1c.XXX
<ul style="list-style-type: none"> <li>● mRT with protective sleeve</li> </ul> 	2	15	b	mRT-2b.XXX
		20	c	mRT-2c.XXX
<ul style="list-style-type: none"> <li>● mRT with threaded sleeve</li> </ul> 	3	15	b	mRT-3b.XXX
		20	c	mRT-3c.XXX
<ul style="list-style-type: none"> <li>● mRT with two clamps</li> </ul> 	4	15	b	mRT-4b.XXX
		20	c	mRT-4c.XXX

### APPLICATION

The temperature microrelay mRT type can be used in signaling the exceeding of prescribed temperature in bearing, in iron and electric devices coils and transformers, chipping tools, cooling and lubricating fluids.

The temperature microrelay will be fitted as shown in the picture taking account of size level.

It can be used in explosion hazardous environments, supplied by the ATBP-4 device, made by AMCO OTOPENI.