

Nivotemp M-0



The Nivotemp M series comprises a group of controllers for the control of both liquid level and temperature in fluid power packs or lubrication systems.

The installation via a central thread is cost effective and allows the use of a small float with good buoyancy.

Despite small physical dimensions the Nivotemp M has a series of adjustable bistable contacts. The number of contacts is determined by the type of the connector as you can see from the data sheets.

The use of bistable contacts allows the float to operate a number of contacts.

- **liquid level and temperature in one unit**
- **adjustable contacts**
- **bistable = just one float**
- **float with good buoyancy**
- **electrical connector included**
- **easy installation**
- **maintenance free**

technical data

operating pressure max. 1 bar
 operating temperature max. 80 °C
 spec. gravity of fluid min. 0,8 kg/dm³

material: **M-0-MS** **M-0-VA**
 switch tube brass 1.4571
 flange brass 1.4571
 float SK 161 NBR NBR

level contacts **K8** **W9**
 function *NC / NO change over
 min. distance betw. Cont. 40 mm 40 mm
 max. voltage 230 V 48 V
 max. current 0,5 A 0,5 A
 contact load 10 VA 20 VA
 part - no 1893999 1890899

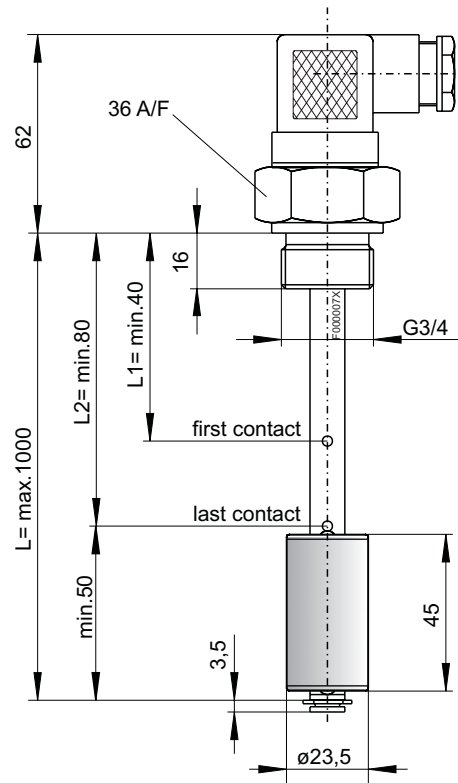
*NC = normally closed / NO = normally open all figures at **empty reservoir**

temperature contacts
 max. voltage 250 V
 max. current 2 A
 contact load 100 VA
 hysteresis 15 K ± 5 K

| switch point | 50°C | 55°C | 60°C | 70°C | 80°C | NC* | Art.-Nr. | NO* | Art.-Nr. |
|--------------|------|------|------|------|------|--------|----------|--------|----------|
| | 50°C | - | - | - | - | TMÖ-50 | 1846299 | - | - |
| | 55°C | - | - | - | - | - | - | TMS-55 | 1848299 |
| | 60°C | - | - | - | - | TMÖ-60 | 1846099 | TMS-60 | 1848099 |
| | 70°C | - | - | - | - | TMÖ-70 | 1847099 | TMS-70 | 1849099 |
| | 80°C | - | - | - | - | TMÖ-80 | 1847299 | TMS-80 | 1848499 |

other settings upon request

*NC = normally closed / NO = normally open all indications are at **raising temperature**



| connectors | M3 3 pol. + PE DIN 43650 | GS4 4 pol. | M12 (socket) 4 pol. | C7 7 pol. + PE DIN 46651 |
|--|--|------------------------------------|---------------------------------|--|
| protection class | IP 65 | IP 65 | IP 67** | IP 65 |
| cable gland | PG 11 | PG 7 | PG 7** | PG 11 |
| other connectors upon request | | | ** with plug fixed | |
| max. no of contacts level-/ temperature contact or | 1 x K8 / 1 x TM - / - | 2 x K8 / 1 x TM 1 x W9 / 1 x TM | 1 x K8 / 1 x TM - / - | 3 x K8 / 1 x TM 2 x W9 / 1 x TM |
| level contact only or | 2 x K8 1 x W9 | 3 x K8 1 x W9 | 2 x K8 1 x W9 | 4 x K8 2 x W9 |
| max. voltage | 230 V AC/DC 48 V with change over contact | 24 V DC | 24 V DC | 230 V AC/DC 48 V with change over contact |

ordering information

part no of basic version, **without** contact

| with connector | | M3 | GS4 | M12 | C7 |
|-----------------|------------|------------|------------|-------------|------------|
| Nivotemp M-0-MS | L=250 | 1006299250 | 1011599250 | 10101799250 | 1006899250 |
| Nivotemp M-0-MS | L=370 | 1006299370 | 1011599370 | 10101799370 | 1006899370 |
| Nivotemp M-0-MS | L=520 | 1006299520 | 1011599520 | 10101799520 | 1006899520 |
| Nivotemp M-0-MS | L=variable | 1006299 | 1011599 | 10101799 | 1006899 |
| Nivotemp M-0-VA | L=250 | 1007099250 | 1007199250 | 1007399250 | 1007499250 |
| Nivotemp M-0-VA | L=370 | 1007099370 | 1007199370 | 1007399370 | 1007499370 |
| Nivotemp M-0-VA | L=520 | 1007099520 | 1007199520 | 1007399520 | 1007499520 |
| Nivotemp M-0-VA | L=variable | 1007099 | 1007199 | 1007399 | 1007499 |

order example:

you need: length level contact L=520 , first contact at NC with L1=100 , second contact at NO with L2=450
 you order: part-no 1006299520 Nivotemp M-0-MS-M3 , 2 x contact K8 (1893999), L1=100 NC , L2 = 450 NO

supplies: adapter G3/4 - G1 part-no : 1011000
 adapter G3/4 - oval flange part-no : 1012000