

Level and temperature switch

NT M...-Atex



The NT M...-Atex is used to monitor the liquid level and temperature in simple hydraulic systems. This series consists of simple electrical equipment without a separate voltage source. In the case of intrinsically safe connections as per EN 60079-14, the level switch can be used in Zone 2 (group IIC, device category 3G) explosive areas; this also applies to the inner zone of the tank. The NT M...-Atex can be used in temperature class T4.

This unit further has a particularly buoyant float despite its small dimensions. The bistable reed contacts can later be adjusted.

ATEX applications: Zone 2 (cat. 3G), simple electric equipment according to EN 60079-11

Various plug options

Level/temperature monitoring

Adjustable level contacts

Bistable = only one float

Particularly buoyant float

Connector standard

Easy installation

Maintenance free



Technical Data

NT M...-Atex

Operating pressure:	max. 1 bar	
Medium /operating temperature:	max. +80 °C (C7 and M3 plug) max. +70 °C (M12 plug)	
Ambient temperature:	-20 to +80 °C (C7 and M3 plug) -20 to +70 °C (M12 plug)	
Fluid density:	min. 0.8 kg/dm ³	
Material	MS	VA
Switching tube:	Brass	1.4571
Flange:	Brass	1.4571
Float SK 161	NBR	NBR
Level contacts	K8	W9
Function	NC/NO*	Changeover contact
Min. contact spacing	40 mm	40 mm
Temperature contacts		
Switch-back difference:	15 K ± 5 K	
Switching point:		
	NC*	NO*
50 °C	TMÖ-50	-
55 °C	-	TMS-55
60 °C	TMÖ-60	TMS-60
70 °C	TMÖ-70	TMS-70
80 °C	TMÖ-80	TMS-80

Other temperatures available upon request

*NC = NC contact/NO = NO contact All data for rising temperature

Pt100 resistance thermometer

(Pt100 class B DIN / IEC 751)

Tolerance:	± 0.8 K
Measuring current I_c :	≤ 1 mA
P_i :	100 mW
U_i :	30 V
I_i :	50 mA
L_i, C_i :	negligible

Accessories

Connection cable M12x1 (5-pin) 3.0 m long, item no.: 9144050018

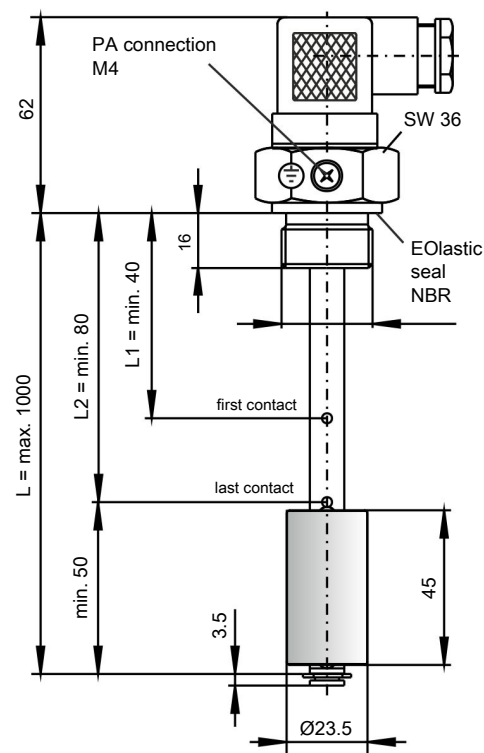
Adapter G3/4 to G1, item no.: 1011000

Adapter G3/4 to oval flange, item no.: 1012000

The device is suitable for use in ATEX category II 3 G Ex ic IIC T4 Gc.

The level switches may only be operated on intrinsically-safe circuits!

Dimensions

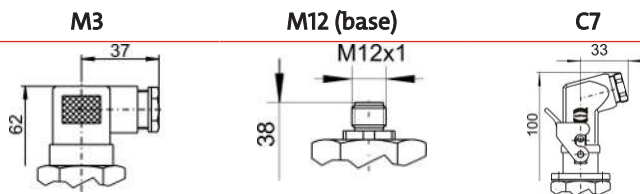


Temperature contacts

P_i	100 mW
U_i	30 V
I_i	50 mA
L_i, C_i	Negligible

Connector

Dimensions:



Number of pins:	3-pin + PE	4-pin + PE	7-pin + PE
DIN EN:	175301-803	61076-2-101	175301-801
IP rating:	IP65	IP67*	IP67**
Cable fitting:	PG 11		PG11
Max. number of contacts			
Level/temperature contact	1 x K8/1 x TM	1 x K8/1 x TM	3 x K8/1 x TM
Level contact only	2 x K8 1 x W9	2 x K8 1 x W9	4 x K8 2 x W9

*with respective plug top.

**with gland/without IP44 gasket.

Model Key

Type designation	NT M-XX-XX-XX-XX-XX-XX-A-XX-ATEX	
Version		Options
MS = brass		OV = oval flange (for G3/4)
VA = stainless steel		G1 = adapter G3/4 to G1
Connection		Pt100 = temperature sensor
G3/4		Temperature contact
Plug *		NC contact NO contact
C7		TM50NC TM50NO = 50 °C
M3		TM55NO = 55 °C
M12		TM60NC TM60NO = 60 °C
Length		TM70NC TM70NO = 70 °C
280		TM80NC TM80NO = 80 °C
370		
500		Contact type
Variable (please specify)		K8 NC/NO
Number of level contacts		W9 changeover contact (max. 2)
1-2		

* see "Plug Connection"

Ordering example

You require: Level switch with G3/4 connection, brass, length L= 500 mm,
2 level contacts, 1st contact 100 mm NC, 2nd contact 450 mm NO

Order NT M-MS-G3/4-M3/500-2K-100NC-450NO-ATEX