

Level switch NS 1-G1/2-AM

Oil tanks in lubrication and oil supply systems are often under overpressure compared to the ambient atmosphere. All oil moistened parts of devices mounted externally on the tanks or housings for monitoring the liquid level must therefore be pressure-resistant.

Larger oil tanks or gear cases often also require a visual liquid level monitoring option. Since these tanks/housings are often only subject to atmospheric pressure, for functional and economic reasons the visual indication can be combined with electrical monitoring of the varying volume. The sight float indicates the level on the sight glass whilst triggering the switching contacts of the level switch inside. The entire unit connects with threaded couplings. The easy to read sight glass is supported by sturdy side walls. The switching contacts are variable. They connect to power with a DIN plug, which is included.

Level switch NS for external installation

Visual and electric liquid level monitoring

Small, compact design

Easy installation

Adjustable level contacts

Plug connection as a standard

Display with scale

Compact design

Variable installation dimensions



Technical Data

Basic Unit

Operating pressure:	max. 1 bar (14.5 psi)
Operating temperature:	-20 °C to +80 °C (-4 °F to 176 °F)
Min. fluid density:	0.80 kg/dm ³ (0.0029 lb/in ³)
Lengths:	280 (11"), 370 (14.6"), 500 mm (19.7") (standard) variable to max. 800 mm (31.3")
Weight at L = 280 mm (11"):	approx. 2.75 kg (6.1 lb)
Extra per 100 mm (3.9"):	approx. 0.25 kg (0.6 lb)

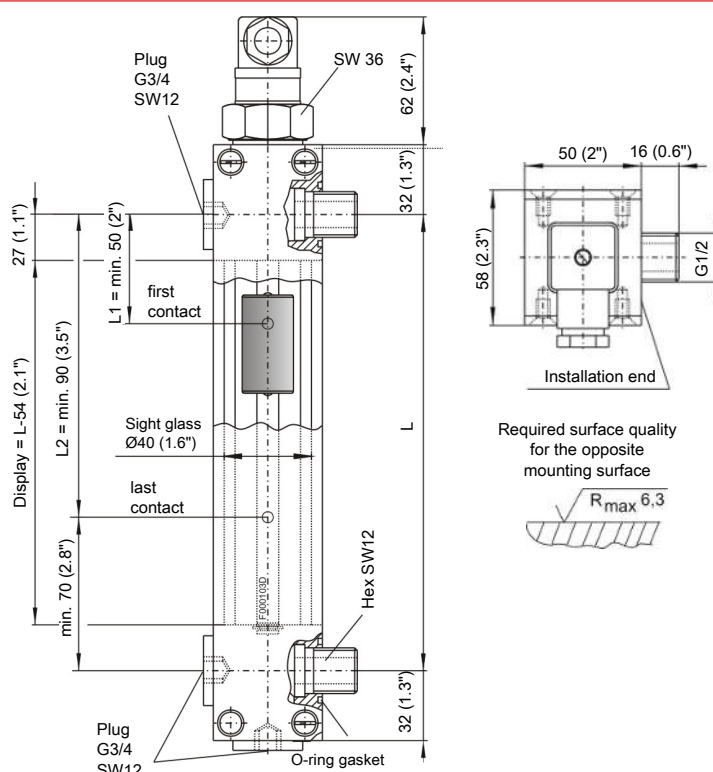
Material

Housing:	Anodised aluminium
Sight glass:	Plexiglas (PMMA)
Fixing screws:	Chromated steel
Seal:	NBR
Level switch	Brass
Float:	NBR

Level contacts	K8	W9
Function:	NO/NC*	Changeover contact
Max. operating voltage:	230 V	48 V
Max. switching current:	0.5 A	0.5 A
Max. contact load:	10 VA	20 VA
Min. contact spacing:	40 mm (1.6")	40 mm (1.6")

*NO= falling NC contact/NC = falling NO contact

Dimensions



Model key

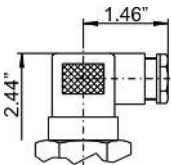
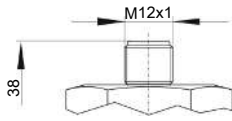
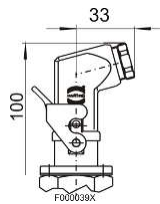
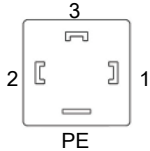
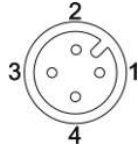
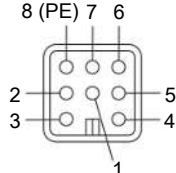
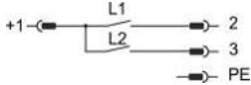
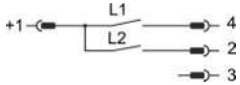
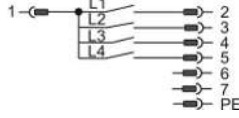
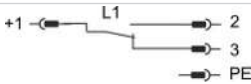
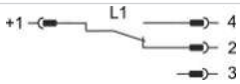
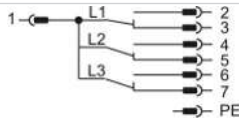
NS 1-G1/2-AM-xx-nn-xx-xx	
Type designation	
Connection	
G1/2	
Tank top installation	
Plug connection	
M3	
M12	
C7	
Level contacts	
K NO/NC	
W Changeover (max. 2)	
Level measurement	
1-4 contacts	
Length	
280 (11")	
370 (14.6")	
500 (19.7")	
nnn (variable, please specify value)	

Ordering example:

You require: Level switch for external installation, G1/2 connections, length L= 370 mm (16.6"), M3 plug connection
2 level contacts, 1st contact 100 mm (3.9") NC, 2nd contact 300 mm (11.8") NO

Order NS 1-G1/2-AM-M3/370-2K L1=100 NC, L2 = 300 NO

Standard pin assignment

Connector:	M3 valve connector	M12 plug A-coded	C7 HAN 3 A
Dimensions:			
Connection schematic:			
Number of poles:	3-pin + PE	4-pin	7-pin + PE
DIN EN	175301-803	61076-2-101	175301-801
Max. voltage:	230 V AC/DC*	30 V DC	230 V AC/DC*
IP rating:	IP65	IP67**	IP65***
Cable fitting:	PG 11		PG 11
Max. Number of level contacts:	2 x K8 1 x W9	2 x K8 1 x W9	4 x K8 3 x W9
K8 Level contact(s)			
W9 Level contact(s)			

*Max. 48 V AC/DC for change-over contact. **IP67 with cable box attached. ***IP44 with gland/without gasket.