

Level switch NS-OM



Fluidcontrol

The level switches are used to monitor liquid levels in tanks. They were designed specifically to be installed on tank tops. The liquid level can be read on the scale. Up to four switching contacts or a Reed-contact also enable electronic liquid level monitoring.

Different versions also allow for use in aggressive mediums.

NS-OM 61/63

Visual and electrical liquid level monitoring

max. switching voltage 230 V

Variable lengths

Version NS-OM-63 with 4-20 mA analog output for continuous liquid level monitoring

NS-OM-64

Visual and electric liquid level monitoring

Easy Just System: User-friendly adjustment of the position and function of the level contacts

Fixed lengths of 270, 370, 500 mm

NS-OM-VA

Visual and electrical liquid level monitoring

Max. Supply voltage 230 V

Stainless steel model for sophisticated applications

Externally installed level contacts



Technical Data NS-OM
Basic unit

Operating pressure:	max. 1 bar
Operating temperature:	-20 °C to +80 °C
Min. fluid density:	0.80 kg/dm ³

Material

Float:	hard PU
Guide bar:	Aluminium
Switching tube:	Brass
Flange (DIN 24557)	PA
SSR (optional):	Brass

Model 61

Lengths:	L = 280, 370, 500 mm (standard) variable to max. 1000 mm
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Level contacts	K10	W11
Function:	NO / NC*	Changeover contact
Max. 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	40 mm

*NO = falling NC / NC = falling NO

Model 64

Lengths:	L = 280, 370, 500 mm
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Level contacts	
Function:	K = NO / NC* or W = changeover
Max. voltage:	30 V
Max. switching current:	0.5 A
Max. contact load:	10 VA
Min. contact spacing	40 mm

*NO = falling NC / NC = falling NO

Model 63 (continuous level)

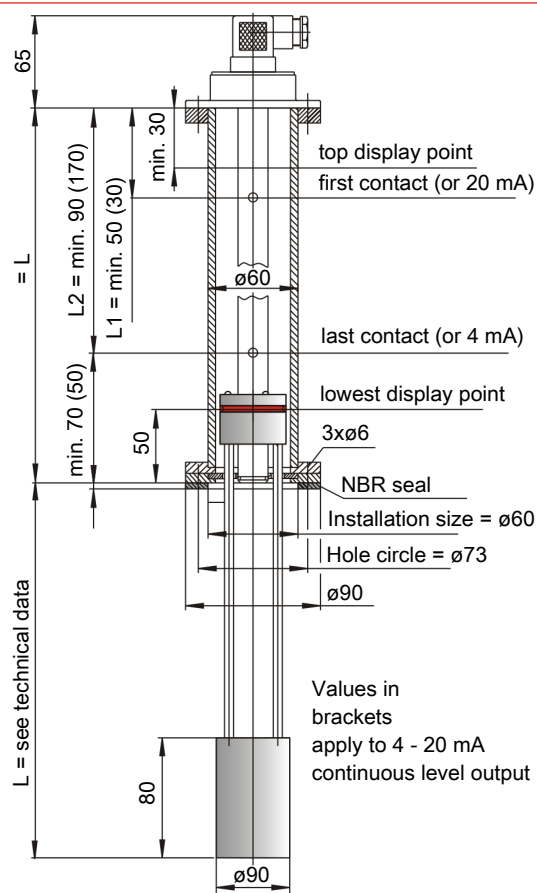
Lengths:	Lengths = 280, 370, 500, 670, 820 and 970 mm*
Measurement principle	Reed-contact
Resolution	5 mm
Operating voltage (U _B):	10 – 30 V DC
Output	4 – 20 mA
Max. burden Ω:	= U _B – 7.5 V (0.02 A)

*Other lengths on request

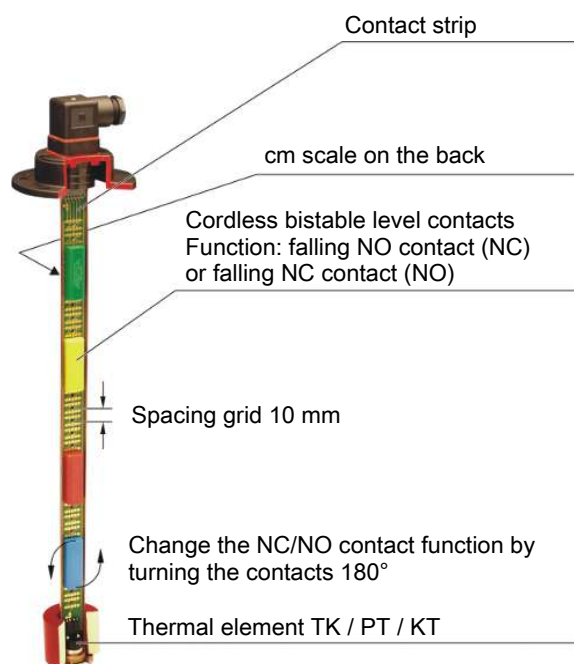
Optional	SSR - stilling tube
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Included

Mounting screws (6 count) and Rubber cork seal

Dimensions


The easyjust system



Pin Assignment

Connector	M3 (DIN EN 175301-801)	S6 (DIN EN 175201-804)	M12 (base)	2 x M12 (base)
	3-pin + PE	6-pin + PE	4-pin	2 x 4-pin
Max. voltage	230 VAC/DC*	230 VAC/DC*	30 V DC	30 V DC
IP rating	IP 65	IP 65	IP 67**	IP 67** IP65
Cable fitting	PG 11	M20 x 1.5		(NS OM-61 only)
Level contact(s) NO/NC				
Level contact(s) changeover				
NS OM-63-KN (continuous level)				

Model key NS OM-61, 64

NS OM-XX-XX-XX-XX-XX-XX							Optional	
Type designation							SSR	Stilling tube
Model							Level measurement	
61							1- 4 contacts	
64	Easy Just						Level contact	
Connector							K	Model K10 (NC/NO)
M3	1x M3, 3-pin						W	Model W11 (change-over contact)
S6	1x S6, 7-pin						Length (mm)	
M12	1x M12, 4-pin						280	
2M12	2x M12, 2x 4-pin						370	
							500	
							variable (max. 1000, model 61 only)	

Model key NS OM-63

NS OM-XX-XX-XX-XX-XX						Optional	
Type designation						SSR	Stilling tube
Model						Length (mm)	
63 (continuous level)						280	
Resolution						370	
5 mm						500	
Connector						820	
M3	1x M3, 4-pin					900	
M12	1x M12, 4-pin						

Ordering example

You require: Visual and electric level monitoring length 600 mm with 2 contacts K10, 1. Contact 100 mm falling NO contact, 2. Contact 420 mm falling NC contact.

Order: NS OM 61-S6-/ 600 – 2K L1=100 NC, L2 = 420 NO

Technical Data NS-OM-VA

Basic unit

Operating pressure:	max. 1 bar
Operating temperature:	-20 °C to +80 °C
Min. fluid density:	0.80 kg/dm ³

Material

SK 903 float:	PU/AI/PP
Immersion tube:	1.4571
Flange:	1.4571
Stilling tube	1.4571 (included)
Sight glass	PC

Model

Lengths:	L = 280, 370, 500 mm, variable to max. 820 mm
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Contacts

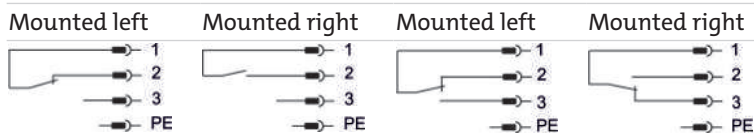
Type:	MKS-1/K	MKS-1/W
Function:	NC / NO*	Changeover contact
Max. voltage:	230 V AC/DC	230 V AC/DC
Max. switching current:	1 A	1 A
Max. contact load:	50 VA	40 VA
Connector:	3 pin + PW	3 pin + PW
	M3 (DIN EN 175301-803)	M3 (DIN EN 175301-803)
IP rating:	IP65	IP65
Item number:	288 89 99	288 99 99

Other contacts available upon request

*NO = falling NC / NC = falling NO

MKS-1/K

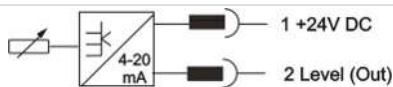
MKS-1/W



Contact position with empty tank

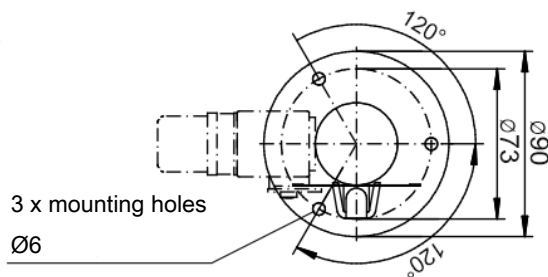
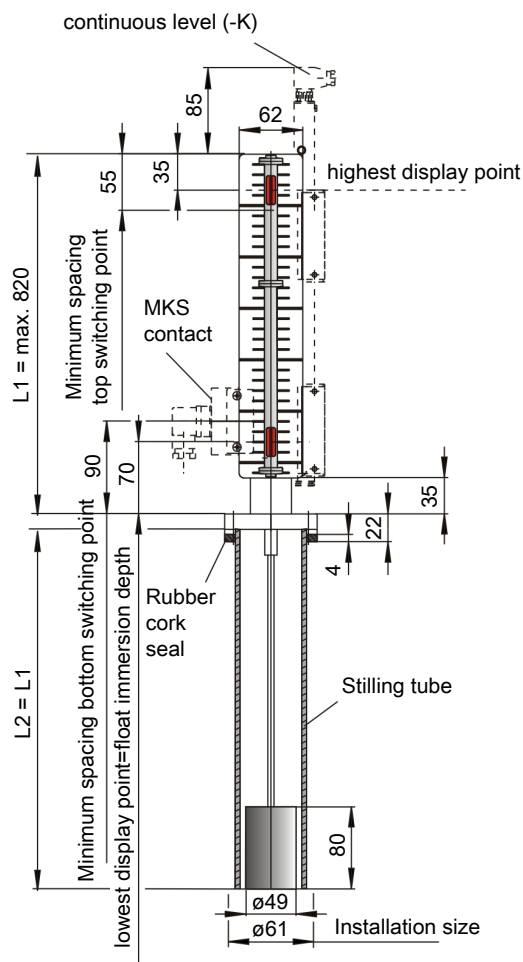
Model	K (continuous level measurement)
Lengths:	L = 280, 370, 500, 670, 820 mm*
Measurement principle	Reed-contact
Resolution	5 or 10 mm
Operating voltage (U _B):	10 – 30 V DC
Output	4 – 20 mA
Max. burden Ω:	= U _B – 7.5 V (0.02A)

*Other lengths on request



With this type, MKS contacts can additionally be installed to the left of the visual display.

Dimensions



Model key NS OM-VA

	NS OM-VA-MKS-XX	
Type designation		Length max 820 mm
Material		280
1.4571		370
		500
Magnet contact switch (MKS)		nnn variable, please specify value

	NS OM-VA-KXX-XX	
Type designation		Length (mm)
Material		280
1.4571		370
		500
Continuous level measurement (K)		670
K5 continuous resolution 5 mm		820
K10 continuous resolution 10 mm		

Ordering example

You require: Visual and electric level monitoring, VA version length 600 mm and 2 x contacts MKS 1/W.

Order: NS OM-VA-MKS / 600 + 2 x contact MKS-1W (item no. 288 99 99)