

Level switch

NS 64/NS 100 ..-AM

Forging and press technology require large fluid volumes to be moved very rapidly under high overpressure. For this purpose, hydraulic accumulators are charged with the fluid up to the required operating pressure and pressurised to release the desired volume at the correct pressure at the defined time.

The NS 64 and NS 100 series are suitable for monitoring the variable fill volumes for these systems. Available with up to 64 or 100 bar pressure ratings, they indicate the desired liquid level via clearly visible sight glass float, as well as via variable switching contacts and/or continuous output position encoder. A magnetic field generated by the interior unsinkable main float moves the sight glass float. The same magnetic field also triggers the electric contacts and the position encoder.

Level switch NS for external installation

Visual and electric liquid level monitoring

Operating pressure up to 100 bar

Adjustable level contacts

Optional 4-20 mA analogue output

Display with scale

Compact design

Particularly buoyant floats

Special versions available upon request



Technical Data NS 64 ..-AM

Basic Unit

Max. operating pressure	64 bar
Max. operating temperature	50 °C
spec. min. fluid weight	0.85 kg/dm ³

Material

Float SK596	Plastic
Riser	1.4571
Flange	1.4541
Sight glass	PC

Connection

DIN 2637 flange	DN 25
ØD	140
Øk	100
Ød	18
b	22
ØA	68
h	2

Weight at L1=500 mm	approx. 22 kg
Weight L1+100 mm	approx. 0.5 kg

Other versions available upon request

Options

Transducer tube	-K continuous level
Measurement principle	Reed contact
Resolution	5 or 10 mm
Operating voltage (U _B)	10 - 30 VDC
Output	4 - 20 mA (nominal voltage 24 VDC)
Load Ω max.	(U _B - 7.5 V) / 0.02 A

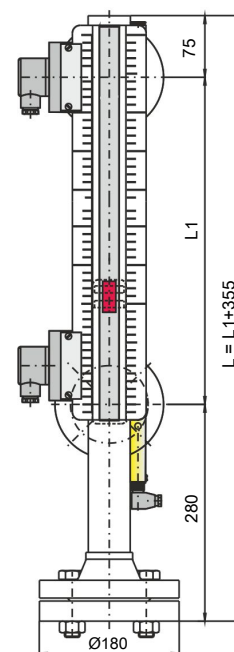
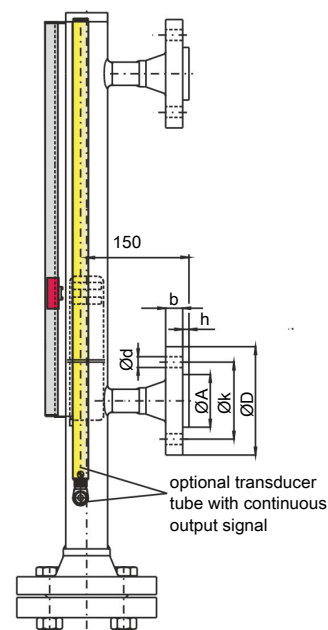
Accessories

Item no.:	Description:
22 54 000	Flange seal 65/25x2 mm (DN25)
22 73 999	Mounting bolts 8 x M16x70

Pressure Equipment Directive information:

The level switches are designed, manufactured and tested to Pressure Equipment Directive 2014/68/EU according to AD-2000 code.

The actual category of the level switch achieved is printed on the type plate. Depending on the category, comprehensive quality assurance is performed according to module H or H1.



Model key NS 64

Model key

Type designation/external installation	NS 64/25AM-XX-SK596/-XX	Length L1 = mm
Option	Transducer tube - continuous level measurement (K)	Float
K5	continuous resolution 5 mm	
K10	continuous resolution 10 mm	

Ordering example

You require: Level switch for external installation, max. operating pressure 64 bar, with DN25 flange connection, adapter spacing L1 = 1400 mm, with 2 changeover contacts

Order NS 64/25-AM-SK596 / 1400
2 x item no. 28 89 999; contact MKS - 1/W

Technical Data NS 100 ..-AM

Basic Unit

Max. operating pressure	100 bar
Max. operating temperature	50 °C
spec. min. fluid weight	0.85 kg/dm ³

Material

Float SK596	Plastic
Riser	1.4571
Flange	1.4541
Sight glass	PC

Connection

DIN 2637 flange	DN 25
ØD	140
Øk	100
Ød	18
b	22
ØA	68
h	2
Weight at L1=500 mm	approx. 25 kg
Weight L1+100 mm	approx. 0.5 kg

Other versions available upon request

Options

Transducer tube	-K continuous level
Measurement principle	Reed contact
Resolution	5 or 10 mm
Operating voltage (U _B)	10 - 30 VDC
Output	4 - 20 mA (nominal voltage 24 VDC)
Load Ω max.	(U _B - 7.5 V) / 0.02 A

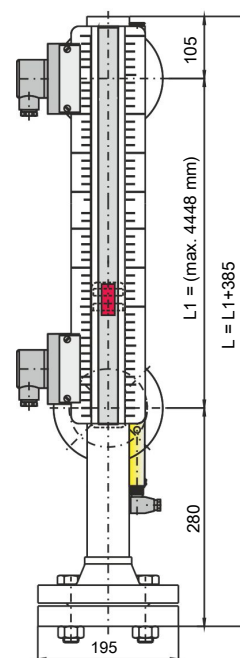
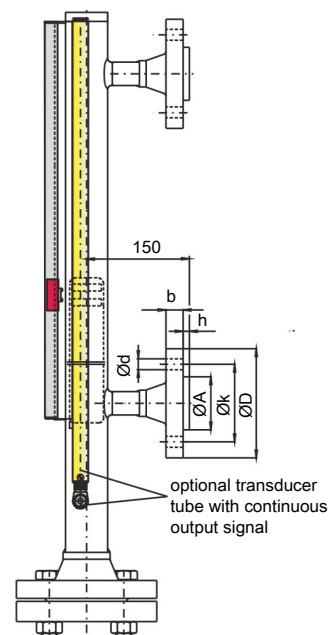
Accessories

Item no.:	Description:
22 54 000	Flange seal 65/25x2 mm (DN25)
22 73 999	Mounting bolts 8 x M16x70

Pressure Equipment Directive information:

The level switches are designed, manufactured and tested to Pressure Equipment Directive 2014/68/EU according to AD-2000 code.

The actual category of the level switch achieved is printed on the type plate. Depending on the category, comprehensive quality assurance is performed according to module H or H1.



Model key NS 100

Model key

Type designation/external installation	NS100/25AM-XX-SK596/-XX	Length L1 = mm
Optional Transducer tube - continuous level measurement (K)		Float
K5 continuous resolution 5 mm		
K10 continuous resolution 10 mm		

Ordering example

You require: Level switch for external installation, max. operating pressure 100 bar, with DN25 flange connection, adapter spacing L1 = 1500 mm, continuous level output, 5 mm resolution and with 2 changeover contacts

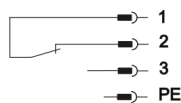
Order	NS 100/25-AM-K5-SK596 / 1500 2 x item no. 28 89 999 contact MKS 1/W
-------	--

Contacts for NS ..-AM

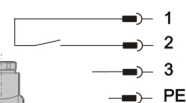
Pin assignment (Contact position empty tank)

Type	MKS-1/K (-60)
Function	NC contact/NO contact
Max. voltage	230 V AC/DC
Max. switching current	1 A
Max. contact load	50 VA
Connector	M3 (DIN EN 175301-803)
	3-pin + PE
IP class	IP 65
Item no.	28 88 999

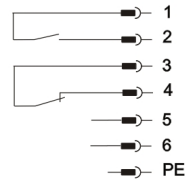
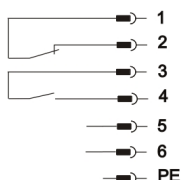
Mounted left



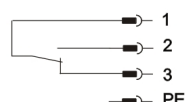
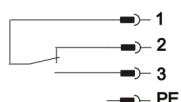
Mounted right



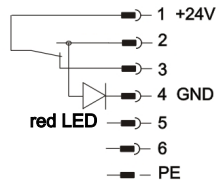
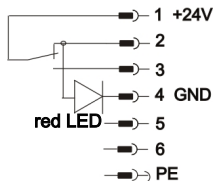
Type	MKS-2/K
Function	2 x NC contact/NO contact
Max. voltage	230 V AC/DC
Max. switching current	1 A
Max. contact load	50 VA
Connector	S6 (DIN EN 175291-804)
	6-pin + PE
IP class	IP 65
Item no.	28 91 999



Type	MKS-1/W (-60)
Function	Change-over contact
Max. voltage	230 V AC/DC
Max. switching current	1 A
Max. contact load	50 VA
Connector	M3 (DIN EN 175301-803)
	3-pin + PE
IP class	IP 65
Item no.	28 89 999



Type	MKS-1/W-L 24 V (-60)
Function	Change-over contact with LED
Max. voltage	24 V DC
Max. switching current	1 A
Max. contact load	25 VA
Connector	S6 (DIN EN 175291-804)
	6-pin + PE
IP class	IP 65
Item no.	28 90 999



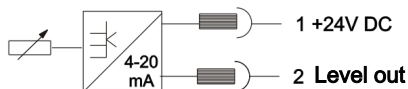
Other contacts available upon request

For applications in high shock and vibration environments we recommend using the MKS-1/K and MKS-2K contacts.

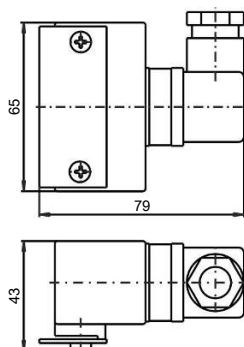
Versions ending in -60 are for switch type NS 3/20 AM and have a pipe clamp for mounting to the level switch tube.

When installing a transducer tube with continuous output signal the contact can only be installed on the left side.

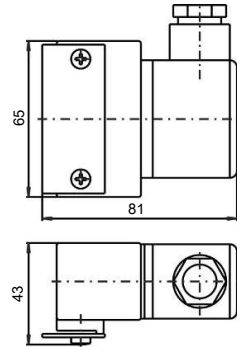
Pin assignment for AM-K with S3 connector



MKS 1/K, MKS 1/W



MKS 2/K



MKS 1/W-L24V

