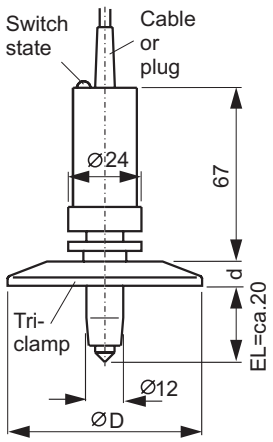
Mini Switch

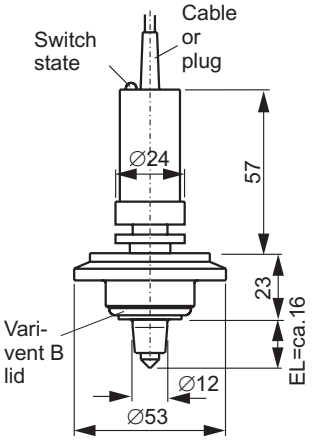
Compact Optoelectronic liquid Level limit switch with integrated alternating light circuit module. The switching function may be adapted for the application.
The output configuration is an open-collector pnp-Transistor.

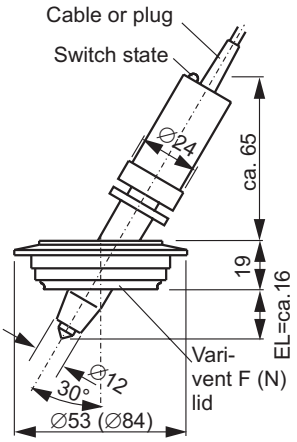
Product group	720
Type	002L
Page: 1/1	Revision: 7
Date:	7/08



Measure table Tri-Clamp

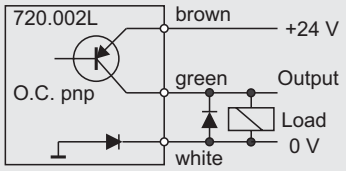
Diameter	ØD	d
NW10/15	34,0	4,7
NW25/ISO32/NW40	50,5	6,4
2"/NW50	64,0	6,4
2 1/2"/ISO60,3/63,5	77,5	6,4



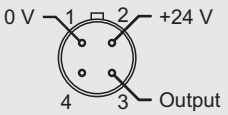


Measures in mm

Connection diagram



pin assignment



Field of application

This Optoelectronic limit switch is for signalling liquid level limits especially in sterile areas.
A big advantage is that to a great extent the optoelectronic sensor works independently of physical properties like density, dielectric constant, conductivity or color. The very compact construction only needs a minimum of space and enables it also to measure very small volume levels. With its built in green LED the activated state is indicated.

General Data

Measuring accuracy:	+/-0,5 mm
Light source:	IR-Light 930 nm
Ambient light:	max. 10.000 Lux
Minimum distance sensor tip to any opposite wall (electropolished):	>25 mm (depends very strongly on the nominal size of pipe and surface finish), or mount diagonally or mount in a pipe bend
Mounting direction:	any
Indication of active output:	green LED
Switch logic:	to be set by factory

Design Data

Operating temperature:	- 30 to +140 °C
Ambient temperature:	-25 to +70 °C
Sterilizing with steam:	15 min. at 150 °C
Operating pressure:	0 - 2,5 MPa (0 - 25 bar)
Material media affected:	SS, see ordering no.
Material Light guide:	Quartzglass
Material packing:	PTFE
Material housing:	1.4301
Weight:	0.125 kg + weight of mechan.conn.

Electrical Data

Rated voltage:	24 V DC -25/+30 %
Supply current max.:	40 mA
Output:	o. C. pnp-Transistor current, voltage dissipation limited short-circuit-protected
Switch current (Tu=70 °C):	0,5 A
Connection:	PVC-cable 3*0.14 mm² TEFLON-cable 3*0,24 mm² or plug 4-pole serie 713
Ingress protection EN 60529 with plug:	IP 65
With cable:	IP 66

subject to alterations

Ordering no.

7 2 0 . 0 0 2 L - S X - X X X X X X X X

Switch direction	switching immersed	E	
	switching dry	A	
Material	1.4301	5 6	
	1.4401	5 C	
	1.4435	6 8	
Connection type	Tri-Clamp NW50	T	
	Varivent form B	B	
	Varivent form F	F	
	Varivent form N	N	
	Ingold	J	
	Coupling for food acc. to DIN 11887	L	

1	NW 10/15 (not for Ingold and Tri-Clamp)	Connection form
2	NW25	
4	NW40	
5	NW50	
D	G 1 1/4"	

B	Binder type 713	Cable, plug sort
P	PVC	
T	Teflon, high temp.resistant	
3	3 m	Cable length
5	5 m	
K	Cable	electrical connection
S	Plug	
0	90°,vertical mounting position	mounting angle
3	30°,sloping mount. pos. (Varivent form F/N)	

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