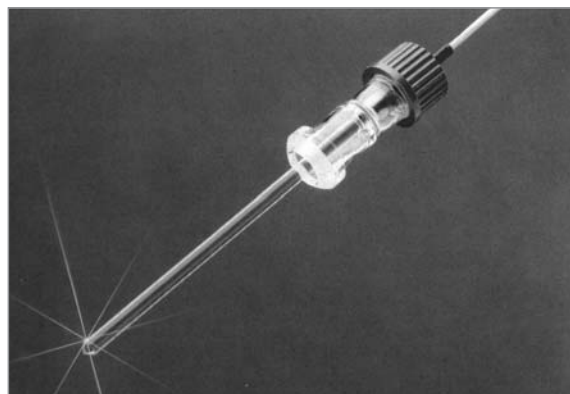


<b>Laboratory Transducer</b>	<b>Product group 720</b>	
	<b>Type 0042</b>	
Optoelectronic liquid Level limit sensor completely made of glass	Page: 1/1	Revision: 5
	Date: 7/08	



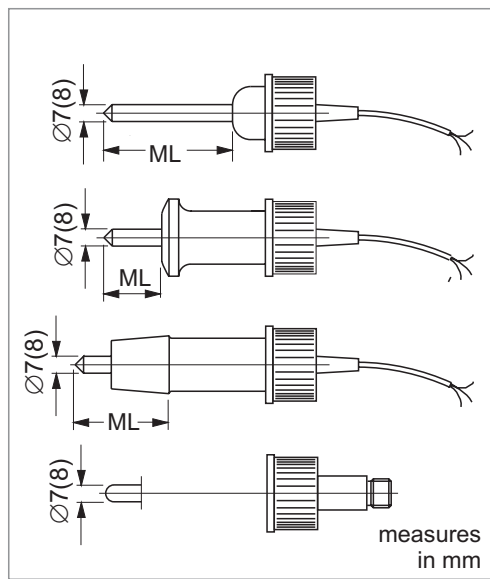
Version:  
spherical  
flange KF,  
Level  
sensor,  
cable  
connection

### Field of application

This Optoelectronic limit sensor is for signalling liquid level and interface limits. A big advantage is that to a great extent the optoelectronic sensor works independently of physical properties such as density, dielectric constant, conductivity or colour. The very compact construction only needs a minimum of space and also enables it to measure very small volume levels.

### General Data

Measuring accuracy:	±0,5 mm
Difference of Refractive Index for interface measurement min.:	0,01 R.I.
Light source:	IR-light 930 nm
Minimum distance Sensor tip to any opposite wall:	>10 mm
Measuring length ML maxl for Duran:	250 mm
for Quartz:	500 mm
Mounting direction:	any
Controller necessary:	Switch amplifier type 720.0250
Weight:	0.1 kg +1.3 g/cm ML



### Design

- Stopper rod, Level sensor, Cable connection
- Connection spherical flange from KF15, Level sensor, Cable connection
- Connection Conic plug from NS19/26, Level sensor, Cable connection
- Interface sensor Plug connector

measures in mm

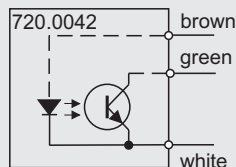
### Design Data

Operating temperature:	- 60 to +250 °C
Ambient temperature:	-25 to +95 °C
Operating pressure:	0 - 0,5 MPa (0 - 5 bar)
Material Sensor-housing and sensor:	Quartz/Duran
Material light guide:	Quartz/Duran
Material screw-cap:	Plastics

### Electrical Data

Power supply:	see controller Type 720.2501.XY
Connection:	PVC-cable 3*0,14 mm2 or 4 pole plug serie 713
Ingress protection acc. to EN 60529 with plug: with cable:	IP 65 IP 67

### Connection diagram



### pin assignment



subject to alterations

### Order No.

7 2 0 . 0 0 4 2 X V A R - X X X X

Measure	Interface	I					
	Level	L					
Glass material	Duran		D				
	Quartz		Q				
electr. connection	Cable			K	X		
	Plug			S			
						O No connect.	Glass connection
						K Spherical flange	
						N Conical connect	
						e. g. 1=1 m	Cable length in m

### PHÖNIX

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