

Transducer

Optoelectronic liquid Level limit transducer
All wetted parts from glass and hermetically sealed
Special connections for glass apparatus

Product group **720**

Type **0642**

Sheet: 1/1 Revision: 2

Date: 7/03



Con-
nection
type
büchiflex
sphere
DN 25
Level

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. It can be used for Ex Zone 0 and Zone 1.

General Data

Accuracy: ±0,5 mm
Reproducibility: ±0,1 mm
Difference of Refractive Index for interface measurement min.: 0,02 R.I.
Light source: IR-Light 930 nm
Ambient light: max. 100 Lux
ML max: Borsilikat glass: 250 mm
Quartz: 500 mm
any

Mounting direction:

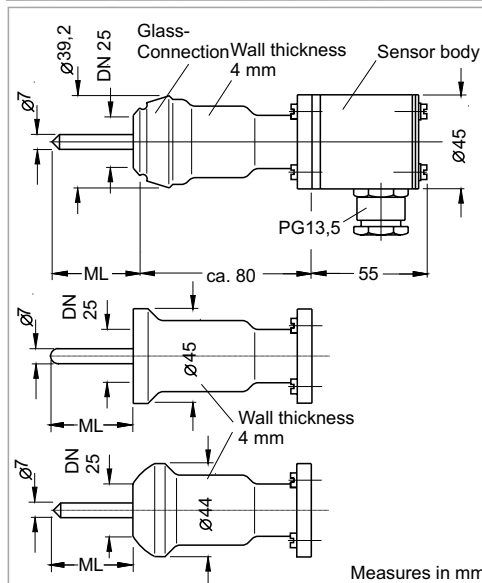
Minimum distance Sensor tip to any surface: > 10 mm
Connection: Büchi sphere, KF sphere, DN 25
Weight: ca. 0,4 kg + 1,3 g/cm ML

Design Data

Operating temperature: -50 to +200 °C (with PTFE-sealing)
-50 to +95 °C
Ambient temperature: -50 to +95 °C
Operating pressure: 0 -1 MPa (0 - 10 bar)
Material Sensor/housing: Borosilikat glass 3.3, Quartz
Material light guide: Borosilikat glass 3.3, Quartz
Material sensor body: Stainless steel
Ex protection: II 1/2 G EEx ib IIC T5, T6
T6: to 60 °C, T5: to 75 °C

Electrical Data

Cable gland: M20x1,5, for Ex blue
Screw terminals: 3 * 2,5 mm²
Ingress protection EN 60529: IP 65



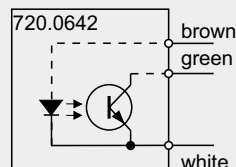
Connection type
büchiflex sphere
DN 25
Level

Connection type
büchiflex flat
ground seal DN 25
Interface

Connection type
sphere KF 25
DN 25
Level

Measures in mm

Connection Diagram



Certificates

EC-Type Examination Certificate: ZELM 02 ATEX 0087
Zone 0 + 1, ASEV is included in ATEX
Subject to alterations!

Ordering no.

7 2 0 . X 1 X 3 0 0 X X X . 0 6 4 2 X ? ? ? ? ? ? ?

1=Standard
2=Ex

1=Level
2=Interface

ML XXX in cm
e.g.:
150 mm=015

B=büchiflex sphere
P=büchiglass
flat ground seal
K=KF sphere

?=Code not in use

PHÖNiX

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