

Transducer

Optoelectronic liquid level limit Transducer

Product group **720**

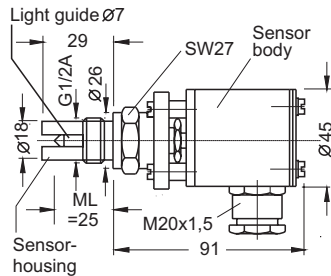
Type **06XX**

Sheet: 1/2

Revision: 4

Date:

2/05



Type 720.0660:
 - 25 mm measuring length
 - Level detection
 - Guard fingers for Sensor tip
 - Ex
 - -65...+250 °C
 - 0...250 bar measures in mm

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 like density, dielectric constant, conductivity or color. The compact construction only needs a minimum of space and enables it to measure in very small volumes. Ex, Zone 0 and Zone 1.

General Data

Accuracy: ±0,5 mm
 Reproducibility: ±0,1 mm
 Smallest R.I.-difference for Interface measurement: 0,02 R.I.
 Light source: IR-Light 930 nm
 Ambient light: max. 100 Lux
 Orientation: any
 Connection: G1/2A, DIN 910
 Conical nipple: DIN 7603
 Weight, Type 720.06X0: 0,77 kg + 9,3 g/cm ML
 Type 720.06X9: 1,07 kg + 9,3 g/cm ML

Preferred dimensions

ML [mm]	Ordering no.			
	Level Standard	Level Ex	Interface Standard	Interface Ex
25	256941	257808	256958	256974
50	257477	258368	257584	257816
60	257485	257709	257592	257824
80	257493	257717	257600	257832
90	257501	257725	257618	257840
100	257519	257733	257626	257857
120	257527	257741	257634	257865
150	257535	257758	257642	257873
200	257543	257766	257659	257881
300	257550	257774	257667	257899
600	257568	257782	257675	257907
800	257576	257790	257683	257915

Design Data

Operating temp. Type 720.06X0: -65 to +250 °C
 Operating temp. Type 720.06X9: -269 to +400 °C
 Ambient temperature: -65 to +95 °C
 Operating pressure: 0 - 25 MPa (0 - 250 bar)
 Op. pressure special design: 0 - 50 MPa (0 - 500 bar)
 Material Sensor-housing: 1.4571, Hastelloy, ...
 Material light guide: Clad core glass, Quartz
 Sapphire (max. ML=60 mm)
 Material packing: Graphite
 Material housing: Stainless steel
 Ex protection: II 1/2 G EEEx ib IIC T5, T6
 T6: bis 60 °C, T5: bis 75 °C

Electrical Data

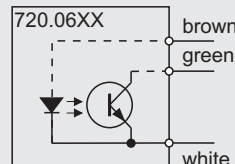
Cable gland: M20x1,5, blue for Ex
 Screw terminals: 3 * 2,5 mm²
 Ingress protection EN 60529: IP 65

Certificates

EC-Type Examination Certificate: ZELM 02 ATEX 0087
 Zone 0 + 1, ASEV is included in ATEX
 SIL level acc. to IEC 61508: SIL1, in connection with amplifier type 720.2502

Subject to alterations

Connection diagram



Ordering no.

7	2	0	.	X	1	X	3	0	0	.	X	X	X	.	0	6	X	X
Application	Standard	1																
Application	Ex	2																
Measure	Level	1																
	Interface	2																
Measuring length	Measuring length in cm e. g. 150 mm = 015	X	X	X														
		6	without, ML=25 mm	Elongation														
8	with, ML=50-960 mm																	

