

Compact Limit Switch

Optoelectronic liquid Level limit switch with integrated alternating light circuit module and relay. The switching function can be set with a switch as well as sensitivity for any application.

Product group **720**

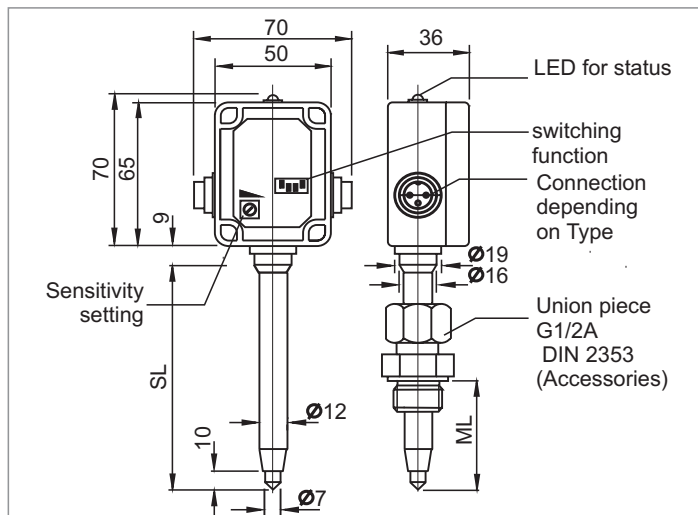
Type **0030/33**

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Revision: 4

Date:

4/06



Field of application

This Optoelectronic limit switch is for signalling liquid level 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. Even foam is no problem as sensitivity can be set. The very compact construction only needs a minimum of space for mounting and allows measuring lengths up to 2000 mm. It can also be used in transparent tanks. With its built in green LED the activated state of the relay is always 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: >10 mm
 Fitting position: any
 Indication of active state relay: green LED
 Switch logic: reversible
 Weight: ML 18-49: 0.12 kg + 5 g/cm ML

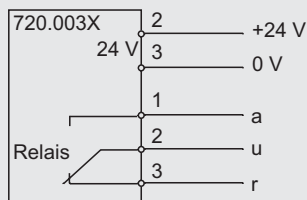
Sensor length SL	Measuring length ML
100	18 - 49
250	18 - 200
550	18 - 500
1050	18 - 1000
2050	18 - 2000



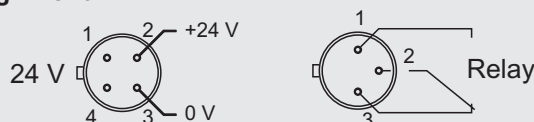
Design Data

Operating temperature: -30 to +95 °C
 Ambient temperature: -25 to +60 °C
 Operating pressure: 0 - 5 MPa (0 - 50 bar)
 Material Sensor-housing: 1.4571
 Material Light guider: Quartzglass
 Material packing: PTFE
 Material housing: Makrolon

Connection Diagram



Pin assignment



Electrical Data

Rated voltage: 24 V DC -25/+30 %
 Supply current max.: 40 mA
 Switch voltage/current: 250 V AC / 3 A
 Stress cycles: > 10⁷
 Connection Relay-output: Plug 3-pole serie 723
 Connection power supply: Plug 4-pole serie 723
 Ingress protection EN 60529 completed: IP 65

subject to alterations

Ordering No.

7 2 0 . 1 1 0 3 1 7 X X X . 0 0 3 X - X

Sensor length	Sensor length in cm, e. g. 250 mm = 025	X X X
Output	Plug, standard-Relay	0
	Plug, fast-cycle-relay	3

N	Normal	Construct.
D	Differential, sensor displaced from electronic	

PHÖNIX

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