

Mini Switch

Optoelectronic liquid Level limit switch
Threaded connection
integrated switched light circuit module
Output open-collector pnp transistor

Product group **720**

Type **0020/21/23**

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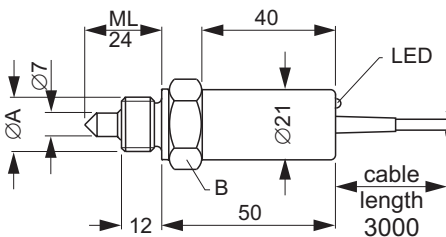
Revision: 7

Date:

7/08



Version
M16x1,5



This type can be delivered
in three versions:

Typ	ØA	B
720.0020SX	M16 x 1,5	SW24
720.0021SX	NPT 1/2"	SW24
720.0023SX	G1/2A	SW30

Cross reference:

New ordering no	Old ordering no
7200020SE	178 558
7200020SA	178 559
7200021SE	178 556
7200021SA	178 557
7200023SE	178 562
7200023SA	178 561

measures in mm

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. 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. It can also be used in transparent tanks.

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
Mounting direction: any
Indication of active output: green LED
Switch direction: to be set at factory

Design Data

Operating temperature: -30 to +140 °C
Ambient temperature: -25 to +70 °C
Operating pressure: 0 - 5 MPa (0 - 50 bar)
Material Sensor-housing: SS
Material Light guide: Quartzglass
Material packing: PTFE
Material housing: SS
Weight: 0.15 kg

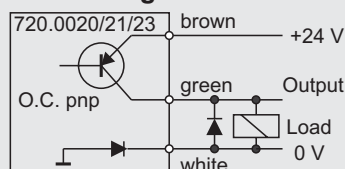
Electrical Data

Rated voltage: 24 V DC -25/+30 %
Supply current max.: 40 mA
Output: O.C. pnp-Transistor
current, voltage dissipation limited
short-circuit-protected

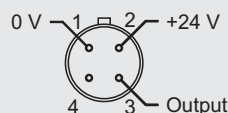
Switch current (Tu=70 °C): 0,5 A
Connection: PVC-cable 3*0.14 mm2
or plug 4-pole serie 713, M12
Ingress protection EN 60529 with plug: IP 65
With cable: IP 66

subject to alterations

Connection diagram



pin assignment



Ordering no.

7 2 0 0 0 2 X S X - 5 9 _ _ _ X X X

Connection	M16x1,5	0
	NPT 1/2"	1
	G1/2A	3
Switch direction	switching immersed	E
	switching dry	A

B	Plug M12	Cable or plug type
P	PVC cable	
3	3 m	Cable length
5	5 m	
A	Cable shielded	electrical connection
K	Cable	
S	Plug	

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