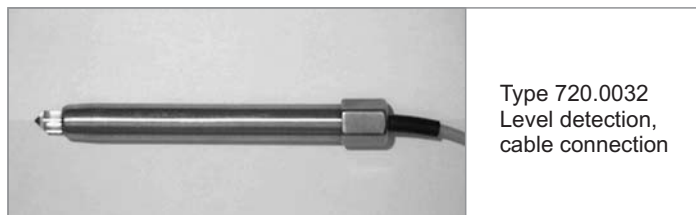


|   |                          |             |
|---|--------------------------|-------------|
| <b>Transducer</b>   | Product group <b>720</b> |             |
|   | Type <b>0032</b>         |             |
|   | Sheet: 1/1               | Revision: 3 |
|   | Date: 4/05               |             |
| Optoelectronic liquid level limit sensor one-piece design |                          |             |



Type 720.0032  
Level detection,  
cable connection

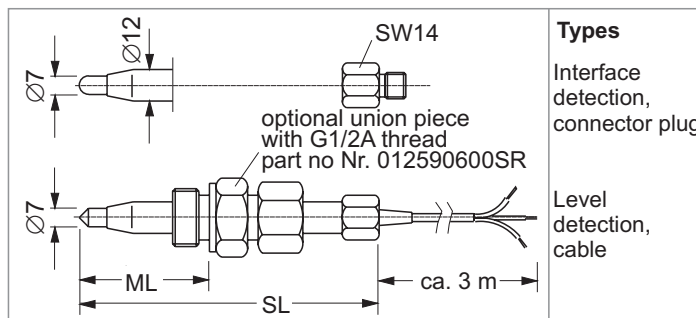
### Field of application

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 like density, dielectric constant, conductivity or color. The very compact construction only needs a minimum of space and enables it to measure in very small volumes. It also can be built into pH-electrode connections

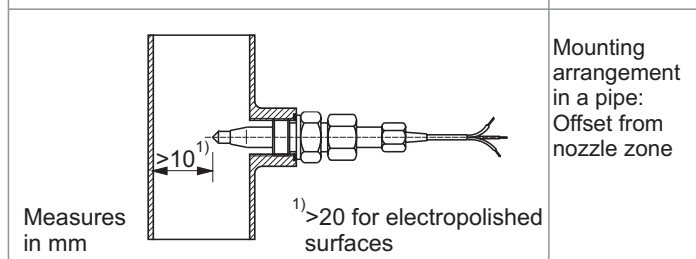
| SL   | ML       | Stock no.   |             |
|------|----------|-------------|-------------|
|      |          | Level       | Interface   |
| 100  | 18 - 49  | 7200032L010 | 7200032I010 |
| 150  | 18 - 100 | 7200032L015 | 7200032I015 |
| 250  | 18 - 200 | 7200032L025 | 7200032I025 |
| 550  | 18 - 500 | 7200032L055 | 7200032I055 |
| 1050 | 18-1000  | 7200032L105 | 7200032I105 |

### General Data

Accuracy: ±0,5 mm  
 Minimum difference in refractive index for interface detection: 0,01 R.I.  
 Light source: IR-light 930 nm  
 minimum distance between Sensor tip and any opposite surface: >10 mm  
 Installation orientation: any  
 Controller: Type 720.0250



**Types**  
 Interface detection, connector plug  
 Level detection, cable



**Mounting arrangement in a pipe:**  
 Offset from nozzle zone

Measures in mm

<sup>1)</sup>>20 for electropolished surfaces

### Design Data

Operating temperature: - 30 to +95 °C  
 Ambient temperature: -25 to +95 °C  
 Operating pressure: 0 - 5 MPa (0 - 50 bar)  
 Material Sensor-housing: 1.4571  
 Material light guide: Quartz glass  
 Material packing: Graphite  
 Weight: 0,1 kg  
 +5 g/cm elongation

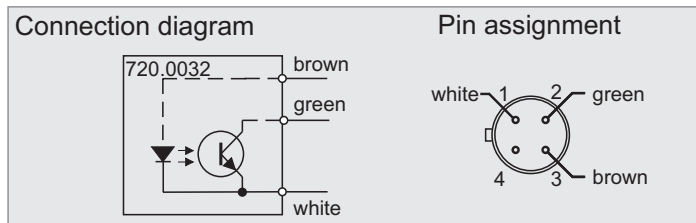
### Electrical Data

Supply, output: see Controller Type 720.0250  
 Connection: PVC-cable 3\*0,14 mm2 or plug 4-pole serie 713  
 Ingress protection EN 60529 with plug: IP 65  
 with cable: IP 67

### Accessories

Union piece DIN 2353 G1/2A 012590600SR  
 Female plug for connector plug STK4713M12

Subject to alterations



Ordering no.

|         |           |   |   |   |   |   |   |   |   |   |   |   |   |       |                       |         |        |                       |
|---------|-----------|---|---|---|---|---|---|---|---|---|---|---|---|-------|-----------------------|---------|--------|-----------------------|
| 7       | 2         | 0 | . | 0 | 0 | 3 | 2 | X | X | X | X | - | X |       |                       |         |        |                       |
|         |           |   |   |   |   |   |   |   |   |   |   |   | K | Cable | Electrical connection |         |        |                       |
|         |           |   |   |   |   |   |   |   |   |   |   |   | S | Plug  |                       |         |        |                       |
|         |           |   |   |   |   |   |   |   |   |   |   |   | 0 | 1     |                       | 0       | 100 mm | Sensor length SL [cm] |
|         |           |   |   |   |   |   |   |   |   |   |   |   | 0 | 1     |                       | 5       | 150 mm |                       |
|         |           |   |   |   |   |   |   |   |   |   |   |   | 0 | 2     | 5                     | 250 mm  |        |                       |
|         |           |   |   |   |   |   |   |   |   |   |   |   | 0 | 5     | 5                     | 550 mm  |        |                       |
|         |           |   |   |   |   |   |   |   |   |   |   |   | 1 | 0     | 5                     | 1050 mm |        |                       |
| Measure | Interface | I |   |   |   |   |   |   |   |   |   |   |   |       |                       |         |        |                       |
|         | Level     | L |   |   |   |   |   |   |   |   |   |   |   |       |                       |         |        |                       |

**PHÖNIX**  
 Messtechnik GmbH  
 Salzschlirfer Straße 13  
 D-60386 Frankfurt/M.  
 Tel. +49/69/41 67 42 - 20  
 Fax +49/69/41 67 42 - 29  
 sales@phoenix-mt.com  
 www.phoenix-mt.com