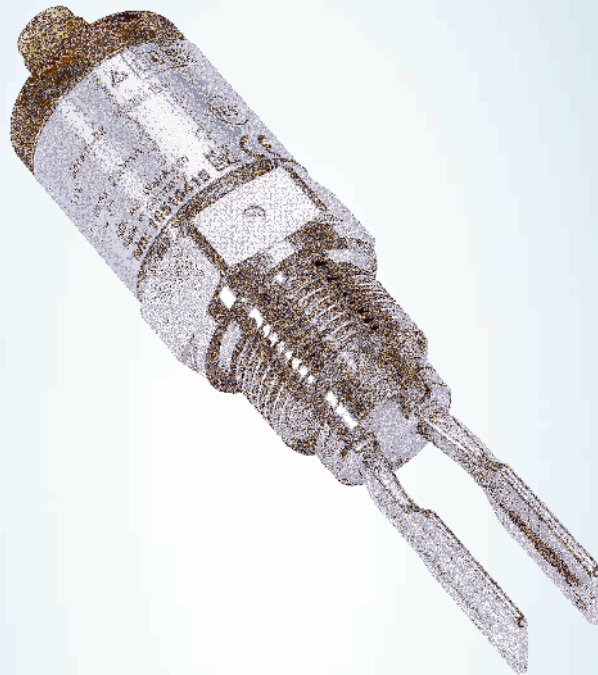




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**LFB200-XXSGHTPM**

LFB200

LEVEL SENSORS

**SICK**  
Sensor Intelligence.

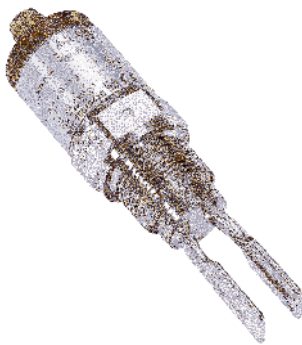


Illustration may differ



### Ordering information

| Type            | Part no. |
|-----------------|----------|
| LFV200-XXSGHTPM | 6048704  |

Other models and accessories → [www.sick.com/LFV200](http://www.sick.com/LFV200)

### Detailed technical data

#### Features

|                              |                         |
|------------------------------|-------------------------|
| <b>Medium</b>                | Fluids                  |
| <b>Measurement</b>           | Switch                  |
| <b>Probe length</b>          | 38 mm                   |
| <b>Process pressure</b>      | -1 bar ... 64 bar       |
| <b>Process temperature</b>   | -40 °C ... +100 °C      |
| <b>Fill material density</b> | ≥ 0.7 g/cm <sup>3</sup> |

#### Performance

|                                   |                          |
|-----------------------------------|--------------------------|
| <b>Accuracy of sensor element</b> | ± 2 mm                   |
| <b>Repeatability</b>              | ≤ 1 mm                   |
| <b>Viscosity</b>                  | 0.1 mPas ... 10,000 mPas |
| <b>Resolution</b>                 | ≤ 1 mm                   |
| <b>Response time</b>              | 500 ms                   |

#### Electronics

|                               |                                |
|-------------------------------|--------------------------------|
| <b>Supply voltage</b>         | 10 V DC ... 55 V DC            |
| <b>Residual ripple</b>        | ≤ 5 V <sub>pp</sub>            |
| <b>Power consumption</b>      | ≤ 10 mA                        |
| <b>Initialization time</b>    | < 2 s                          |
| <b>VDE protection class 2</b> | ✓                              |
| <b>Electrical connection</b>  | M12 round connector x 1, 4-pin |
| <b>Hysteresis</b>             | 2 mm                           |
| <b>Signal voltage HIGH</b>    | V <sub>s</sub> - 3 V           |
| <b>Signal voltage LOW</b>     | 0 V +/- 1 V                    |
| <b>Output current</b>         | < 250 mA                       |
| <b>Inductive load</b>         | ≤ 1 H                          |
| <b>Capacitive load</b>        | 100 nF                         |

|                          |           |
|--------------------------|-----------|
| <b>Enclosure rating</b>  | IP 67     |
| <b>Temperature drift</b> | 0.03 mm/K |

### Mechanics

|                           |                             |
|---------------------------|-----------------------------|
| <b>Wetted parts</b>       | 316L (optional Ra < 0.8 µm) |
| <b>Process connection</b> | G ½ A PN 64                 |
| <b>Housing material</b>   | Stainless steel 1.4404, PEI |

### Ambient data

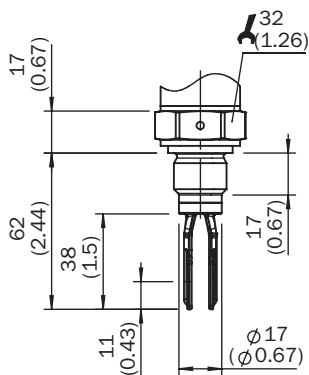
|                                      |                   |
|--------------------------------------|-------------------|
| <b>Ambient operating temperature</b> | -40 °C ... +70 °C |
| <b>Ambient storage temperature</b>   | -40 °C ... +80 °C |

### Classifications

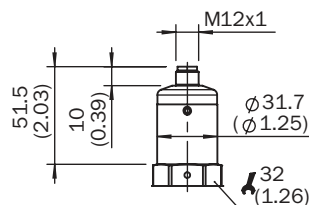
|                       |          |
|-----------------------|----------|
| <b>ECI@ss 5.0</b>     | 27273202 |
| <b>ECI@ss 5.1.4</b>   | 27273202 |
| <b>ECI@ss 6.0</b>     | 27273202 |
| <b>ECI@ss 6.2</b>     | 27273202 |
| <b>ECI@ss 7.0</b>     | 27273202 |
| <b>ECI@ss 8.0</b>     | 27273202 |
| <b>ECI@ss 8.1</b>     | 27273202 |
| <b>ECI@ss 9.0</b>     | 27273202 |
| <b>ETIM 5.0</b>       | EC002654 |
| <b>ETIM 6.0</b>       | EC002654 |
| <b>UNSPSC 16.0901</b> | 41111938 |

### Dimensional drawing (Dimensions in mm (inch))

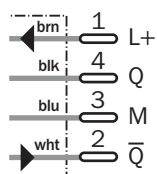
G ½ A, ½" NPT



Housing (standard temperature range -40 °C ... +100 °C), M12 x 1, IP 67



### Connection diagram



### Recommended accessories

Other models and accessories → [www.sick.com/LFV200](http://www.sick.com/LFV200)

|                            | Brief description                                                                                                            | Type               | Part no. |
|----------------------------|------------------------------------------------------------------------------------------------------------------------------|--------------------|----------|
| Flanges                    |                                                                                                                              |                    |          |
|                            | Welded flange/welded connector, DIN11851-1, DN25 / PN40, Stainless steel 1.4404                                              | BEF-FL-851D25-LFV2 | 5321527  |
|                            | Welded flange/welded connector, DIN11851-1, DN40 / PN40, Stainless steel 1.4404                                              | BEF-FL-851D40-LFV2 | 5321459  |
|                            | Welded flange/welded connector, DIN11851-1, DN50 / PN25, Stainless steel 1.4404                                              | BEF-FL-851D50-LFV2 | 5321528  |
|                            | Welded flange/welded connector, process connection G 1, Stainless steel 1.4404                                               | BEF-FL-GEWG10-LFV2 | 4054605  |
|                            | Welded flange/welded connector, G 3/4 process connection, Stainless steel 1.4404                                             | BEF-FL-GEWG34-LFV2 | 4054604  |
|                            | Welded flange/welded connector, process connection Tri-Clamp 1", Stainless steel 1.4404                                      | BEF-FL-TCLI10-LFV2 | 5321678  |
|                            | Welded flange/welded connector, process connection Tri-Clamp 2", Stainless steel 1.4404                                      | BEF-FL-TCLI20-LFV2 | 5321679  |
| Plug connectors and cables |                                                                                                                              |                    |          |
|                            | Head A: female connector, M12, 4-pin, straight<br>Head B: cable<br>Cable: PVC, unshielded, 2 m                               | DOL-1204-G02M      | 6009382  |
|                            | Head A: female connector, M12, 4-pin, straight<br>Head B: cable<br>Cable: drag chain use, PUR, halogen-free, unshielded, 2 m | DOL-1204-G02MC     | 6025900  |
|                            | Head A: female connector, M12, 4-pin, straight<br>Head B: cable<br>Cable: PVC, unshielded, 5 m                               | DOL-1204-G05M      | 6009866  |

|                                                                                     | Brief description                                                                                                             | Type           | Part no. |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|----------------|----------|
|    | Head A: female connector, M12, 4-pin, straight<br>Head B: cable<br>Cable: drag chain use, PUR, halogen-free, unshielded, 5 m  | DOL-1204-G05MC | 6025901  |
|    | Head A: female connector, M12, 4-pin, straight<br>Head B: cable<br>Cable: PVC, unshielded, 10 m                               | DOL-1204-G10M  | 6010543  |
|    | Head A: female connector, M12, 4-pin, straight<br>Head B: cable<br>Cable: drag chain use, PUR, halogen-free, unshielded, 10 m | DOL-1204-G10MC | 6025902  |
|    | Head A: female connector, M12, 4-pin, angled<br>Head B: cable<br>Cable: PVC, unshielded, 2 m                                  | DOL-1204-W02M  | 6009383  |
|    | Head A: female connector, M12, 4-pin, angled<br>Head B: cable<br>Cable: drag chain use, PUR, halogen-free, unshielded, 2 m    | DOL-1204-W02MC | 6025903  |
|    | Head A: female connector, M12, 4-pin, angled<br>Head B: cable<br>Cable: PVC, unshielded, 5 m                                  | DOL-1204-W05M  | 6009867  |
|    | Head A: female connector, M12, 4-pin, angled<br>Head B: cable<br>Cable: drag chain use, PUR, halogen-free, unshielded, 5 m    | DOL-1204-W05MC | 6025904  |
|    | Head A: female connector, M12, 4-pin, angled<br>Head B: cable<br>Cable: PVC, unshielded, 10 m                                 | DOL-1204-W10M  | 6010541  |
|  | Head A: female connector, M12, 4-pin, angled<br>Head B: cable<br>Cable: drag chain use, PUR, halogen-free, unshielded, 10 m   | DOL-1204-W10MC | 6025905  |
|  | Head A: female connector, M12, 4-pin, angled<br>Head B: cable<br>Cable: PVC, unshielded, 15 m                                 | DOL-1204-W15M  | 6036474  |
|                                                                                     | Head A: female connector, M12, 4-pin, angled<br>Head B: cable<br>Cable: PVC, unshielded, 20 m                                 | DOL-1204-W20M  | 6033559  |

## SICK AT A GLANCE

SICK is one of the leading manufacturers of intelligent sensors and sensor solutions for industrial applications. A unique range of products and services creates the perfect basis for controlling processes securely and efficiently, protecting individuals from accidents and preventing damage to the environment.

We have extensive experience in a wide range of industries and understand their processes and requirements. With intelligent sensors, we can deliver exactly what our customers need. In application centers in Europe, Asia and North America, system solutions are tested and optimized in accordance with customer specifications. All this makes us a reliable supplier and development partner.

Comprehensive services complete our offering: SICK LifeTime Services provide support throughout the machine life cycle and ensure safety and productivity.

For us, that is “Sensor Intelligence.”

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