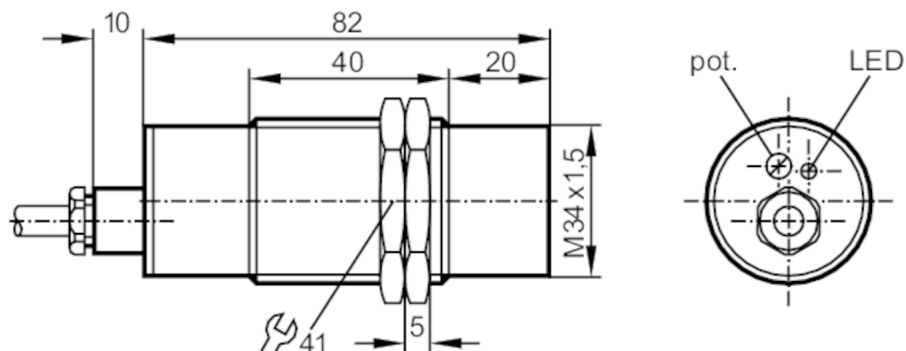


# KX5002



## Capacitive NAMUR sensor

KX-2015-N/NI/6M/1D/1G



### Product characteristics

|                    |                    |
|--------------------|--------------------|
| Electrical design  | NAMUR              |
| Output function    | normally closed    |
| Sensing range [mm] | 15                 |
| Housing            | Threaded type      |
| Dimensions [mm]    | M34 x 1.5 / L = 92 |

### Electrical data

|                                 |                                                                                                             |
|---------------------------------|-------------------------------------------------------------------------------------------------------------|
| Connection at circuit amplifier | yes                                                                                                         |
| Switching amplifiers            | connection to certified intrinsically safe circuits with the max. values: U = 15 V / I = 50 mA / P = 120 mW |
| Nominal voltage DC [V]          | 8.2; (1kΩ)                                                                                                  |
| Supply voltage DC [V]           | 7.5...15                                                                                                    |
| Current consumption [mA]        | < 1; (disabled; conductive: > 2,2)                                                                          |
| Protection class                | I                                                                                                           |
| Measuring principle             | capacitive                                                                                                  |

### Outputs

|                             |                 |
|-----------------------------|-----------------|
| Electrical design           | NAMUR           |
| Output function             | normally closed |
| Switching frequency DC [Hz] | 40              |

### Monitoring range

|                                    |     |
|------------------------------------|-----|
| Sensing range [mm]                 | 15  |
| Sensing range adjustable           | yes |
| Factory setting sensing range [mm] | 15  |

### Accuracy / deviations

|                              |                                                  |
|------------------------------|--------------------------------------------------|
| Correction factor            | glass: 0.4 / water: 1 / ceramics: 0.2 / PVC: 0.2 |
| Hysteresis [% of Sr]         | 1...15                                           |
| Switch-point drift [% of Sr] | -15...15                                         |

### Operating conditions

|                          |          |
|--------------------------|----------|
| Ambient temperature [°C] | -20...60 |
| Protection               | IP 65    |

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| Tests / approvals              |                                               |                 |
|--------------------------------|-----------------------------------------------|-----------------|
| Approval                       | DMT 01 ATEX E 020 X                           |                 |
| ATEX marking                   | II 1D Ex ia IIIC T200 90°C Da                 |                 |
|                                | II 1G Ex ia IIB T6 Ga                         |                 |
| EMC                            | EN 60947-5-2                                  |                 |
| MTTF [years]                   | 838                                           |                 |
| Safety classification          |                                               |                 |
| Max. internal capacitance [nF] | 375.64                                        |                 |
| Max. internal inductance [µH]  | 3                                             |                 |
| Mechanical data                |                                               |                 |
| Weight [g]                     | 650.5                                         |                 |
| Housing                        | Threaded type                                 |                 |
| Mounting                       | non-flush mountable                           |                 |
| Dimensions [mm]                | M34 x 1.5 / L = 92                            |                 |
| Thread designation             | M34 x 1.5                                     |                 |
| Material                       | brass white bronze coated; sensing face: PTFE |                 |
| Displays / operating elements  |                                               |                 |
| Display                        | Switching status                              | 1 x LED, yellow |
| Remarks                        |                                               |                 |
| Pack quantity                  | 1 pcs.                                        |                 |
| Electrical connection          |                                               |                 |
| Cable: 6 m, PVC; 3 x 0.5 mm²   |                                               |                 |
| Connection                     |                                               |                 |

