



## Inductive sensor II5841

URL: <https://www.sxplc.com/inductive-sensor-ii5841>

### Product data sheet

No cables, no accessories, no technical services

#### Product characteristics

|                    |                    |
|--------------------|--------------------|
| Electrical design  | PNP                |
| Output function    | normally open      |
| Sensing range [mm] | 15                 |
| Housing            | Threaded type      |
| Dimensions [mm]    | M30 x 1.5 / L = 60 |

#### Application

|             |                         |
|-------------|-------------------------|
| System      | gold-plated contacts    |
| Application | Industrial applications |

#### Electrical data

|                             |            |
|-----------------------------|------------|
| Operating voltage [V]       | 10...30 DC |
| Current consumption [mA]    | 10         |
| Protection class            | II         |
| Reverse polarity protection | yes        |

#### Outputs

|  |                    |
|--|--------------------|
| Electrical design                                    | PNP                |
| Output function                                      | normally open      |
| Max. voltage drop switching output DC [V]            | 2.5                |
| Permanent current rating of switching output DC [mA] | 200                |
| Switching frequency DC [Hz]                          | 100                |
| Short-circuit protection                             | yes                |
| Type of short-circuit protection                     | yes (non-latching) |
| Overload protection                                  | yes                |

#### Monitoring range

|                               |                |
|-------------------------------|----------------|
| Sensing range [mm]            | 15             |
| Real sensing range $S_r$ [mm] | $15 \pm 10 \%$ |
| Operating distance [mm]       | 0...12.15      |

#### Accuracy / deviations

|  |  |
|--|--|
|  |  |
|--|--|

|                              |   |
|------------------------------|---|
| Correction factor            | steel: 1 / stainless steel: 0.7 / brass: 0.5 /<br>aluminum: 0.4 / copper: 0.3 |
| Hysteresis [% of Sr]         | 1...20  |
| Switch-point drift [% of Sr] | -10...10  |

#### Operating conditions

|                          |          |
|--------------------------|----------|
| Ambient temperature [°C] | -25...70 |
| Protection               | IP 67    |

#### Tests / approvals

|              |                              |                   |
|--------------|------------------------------|-------------------|
| EMC          | EN 61000-4-2 ESD             | 4 kV CD / 8 kV AD |
|              | EN 61000-4-3 HF<br>radiated  | 10 V/m            |
|              | EN 61000-4-4 Burst           | 2 kV              |
|              | EN 61000-4-6 HF<br>conducted | 10 V              |
|              | EN 55011                     | class B           |
| MTTF [years] | 1083                         |                   |

#### Mechanical data

|                 |                    |
|-----------------|--------------------|
| Weight [g]      | 121.9              |
| Housing         | Threaded type      |
| Mounting        | flush mountable    |
| Dimensions [mm] | M30 x 1.5 / L = 60 |
|                 |                    |

|                        |  |
|------------------------|--|
| Thread designation     | M30 x 1.5  |
| Material               | housing: brass white bronze coated; sensing face:<br>LCP natural; LED window: PEI; lock nuts: brass<br>white bronze coated |
| Tightening torque [Nm] | 50   |

#### Displays / operating elements

|         |                  |                 |
|---------|------------------|-----------------|
| Display | Switching status | 4 x LED, yellow |
|---------|------------------|-----------------|

#### Accessories

|                |              |
|----------------|--------------|
| Items supplied | lock nuts: 2 |
|----------------|--------------|

#### Remarks

|               |        |
|---------------|--------|
| Pack quantity | 1 pcs. |
|---------------|--------|

#### Electrical connection - plug

|            |  |
|------------|--|
| Connection | Connector: 1 x M12; coding: A; Contacts: gold-plated |
|------------|--|

