

## Features

- Compatible with all standard T-slot profiles used internationally, no matter the cylinder type or producer
- Fits seamlessly into standard cylinders and linear slides with T-slot design
- Adapters allow installation on round rod, tie-rod, profile, and dovetail groove cylinders
- Retaining ribs on the side allow for effortless installation
- Designed for smooth insertion into standard slots
- Can be fastened using either an Allen key or a flathead screwdriver
- LED for indicating the output state

## RS PRO magnetic cylinder sensor for T-Slot cylinders

RS Stock No.: 0630915

RS Stock No.: 0630916

RS Stock No.: 0630914

RS Stock No.: 0630915



RS PRO is the own brand of RS. The RS PRO Seal of Approval is your assurance of professional quality, a guarantee that every part is rigorously tested, inspected, and audited against demanding standards. Making RS PRO the Smart Choice for our customers.

## Product Description

The RSPRO magnetic cylinder sensor offers reliable, non-contact piston position detection in compact pneumatic cylinders. It features simple installation, broad application flexibility, and a highly competitive cost-performance balance.

### The Application Areas:

Assembly and handling machines, packaging machines and electronics production: The RSPRO magnetic cylinder sensor is a highly versatile solution, compatible with a wide variety of cylinder types and suitable for numerous applications. Its universal design means a single sensor version can cover many needs.

## General Specifications

|                             |                                                                                                                  |         |                                    |         |
|-----------------------------|------------------------------------------------------------------------------------------------------------------|---------|------------------------------------|---------|
| Series                      | Magnetic Cylinder sensor with solid state contact                                                                |         |                                    |         |
| Cylinder type               | T-slot                                                                                                           |         |                                    |         |
| Cylinder types with adapter | Profile cylinder, Tie rod cylinder, round body cylinder, Dovetail groove cylinder, SMC rail CDQ2, SMC rail ECDQ2 |         |                                    |         |
| RS Stock No.                | 0630915                                                                                                          | 0630916 | 0630914                            | 0630915 |
| Housing length              | 29.5mm                                                                                                           |         |                                    |         |
| Switching output            | PNP                                                                                                              | NPN     | PNP                                | NPN     |
| Output Type                 | NO                                                                                                               |         |                                    |         |
| Switching frequency         | 1,000 Hz                                                                                                         |         |                                    |         |
| Connection type             | Cable with connector M8, 3-pin, drag chain use, 0.3 m                                                            |         | Cable, 3-wire, drag chain use, 2 m |         |
| Electrical wiring           | DC 3-wire                                                                                                        |         |                                    |         |
| Enclosure rating            | IP65, IP67                                                                                                       |         |                                    |         |

## Electrical Specifications

|                               |                     |
|-------------------------------|---------------------|
| Operating Supply Voltage      | 10 V DC ... 30 V DC |
| Power consumption             | 8 mA, without load  |
| Voltage drop                  | ≤ 2 V               |
| Continuous current            | ≤ 100 mA            |
| Ambient operating temperature | -30 °C ... +80 °C   |
| Response sensitivity, typ.    | 3 mT                |
| Overrun distance, typ.        | 10 mm               |

|                                   |                                  |
|-----------------------------------|----------------------------------|
| Hysteresis, typ.                  | < 0.8 mT                         |
| Reproducibility                   | $\leq 0.1 \text{ mT}^{\text{a}}$ |
| Wiring technique                  | DC 3-wire                        |
| Short Circuit Overload Protection | YES                              |
| Reverse Polarity Protection       | YES                              |
| EMC                               | According to EN 60947-5-2        |

<sup>a</sup>Supply voltage  $U_B$  and constant ambient temperature  $T_a$ .

## Mechanical Specifications

|                                |                                  |        |        |        |
|--------------------------------|----------------------------------|--------|--------|--------|
| Housing Material               | Plastic                          |        |        |        |
| Cable Material                 | PUR                              |        |        |        |
| Dimension                      |                                  |        |        |        |
| Width                          | 5.7 mm                           |        |        |        |
| Length                         | 29.5 mm                          |        |        |        |
| Depth                          | 5.8 mm                           |        |        |        |
| Weight                         | 13.0 g                           | 13.0 g | 29.0 g | 28.0 g |
| Shock and Vibration Resistance | 30 g, 11 ms / 10 ... 55 Hz, 1 mm |        |        |        |

## Safety-related parameters

|                               |             |
|-------------------------------|-------------|
| MTTF <sub>D</sub>             | 1,300 years |
| DC <sub>avg</sub>             | 0 %         |
| T <sub>M</sub> (mission time) | 20 years    |

## Approvals

|                                        |                                                                                                                                                                         |
|----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Compliance/Certifications/Declarations | EU declaration of conformity<br>UK declaration of conformity<br>ACMA declaration of conformity<br>Moroccan declaration of conformity<br>China-RoHS<br>cULus certificate |
|----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

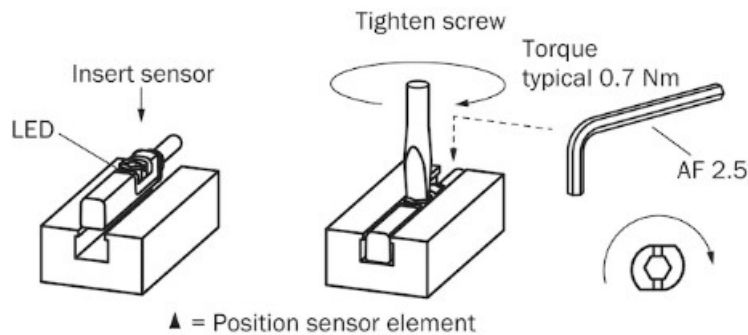
## Similar Products

| Stock No. | Brand | Sensor                      | Type         | Connection           |
|-----------|-------|-----------------------------|--------------|----------------------|
| 0630918   | RSPRO | Cylinder sensor Reed switch | AC/DC 2-wire | 2m cable, PUR        |
| 0630919   | RSPRO | Cylinder sensor Reed switch | AC/DC 2-wire | 2m cable, PUR        |
| 0630920   | RSPRO | Cylinder sensor Reed switch | AC/DC 2-wire | 0.3m cable + M8, PUR |
| 0630921   | RSPRO | Cylinder sensor Reed switch | AC/DC 3-wire | 2m cable, PUR        |
| 0630922   | RSPRO | Cylinder sensor Reed switch | AC/DC 3-wire | 0.3m cable + M8, PUR |

## Accessories

| Stock No.  | Brand | Accessory                         | Type       | Size              |
|------------|-------|-----------------------------------|------------|-------------------|
| 0630923F38 | RSPRO | Adapters for round body cylinders | Round body | 8...25mm diameter |

## Installation Note



## Dimensional Drawing

|                      |                      |
|----------------------|----------------------|
| RS Stock No. 0630914 | RS Stock No. 0630915 |
| RS Stock No. 0630915 | RS Stock No. 0630916 |

