

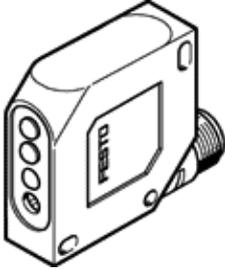
# Distance sensor SOEL-RTD-Q50-PU-S-2L-40

Part number: 549316  
Product to be discontinued

FESTO

[For distance measurement, block design](#)

Type to be discontinued. Available until 2020. See Support Portal for alternative products.



## Data sheet

| Feature                                    | Value                             |
|--|-----------------------------------|
| Design                                     | Block design                      |
| Authorization                              | RCM Mark<br>c UL us - Listed (OL) |
| CE symbol (see declaration of conformity)  | according to EU-EMV guideline     |
| Materials note                             | Free of copper and PTFE           |
| Measured variable                          | Travel                            |
| Measuring principle                        | Optoelectronic                    |
| Measurement method                         | Distance sensor                   |
| Type of light                              | Laser<br>Red                      |
| Max. spot diameter                         | <0,8 mm                           |
| Working range                              | 44 ... 84 mm                      |
| Distance measuring range                   | 40 mm                             |
| Ambient temperature                        | 0 ... 45 °C                       |
| Reference material                         | 18 %                              |
| Travel resolution                          | 0.02 mm                           |
| Analog output                              | 0 - 10 V                          |
| Linearity error, FS                        | < 1.2 %                           |
| Max. load current at analog voltage output | 3 mA                              |
| Short circuit strength                     | Pulsing                           |
| Operating voltage range DC                 | 18 ... 28 V                       |
| Residual ripple                            | 10%                               |
| Idle current                               | 35 mA                             |
| Polarity protected                         | for operating voltage             |
| Electrical connection                      | Plug<br>M12x1<br>4-pin            |
| Size                                       | 50x50x17 mm                       |
| Mounting type                              | with through hole                 |
| Product weight                             | 33 g                              |
| Material housing                           | ABS                               |
| Ready status display                       | Green LED                         |
| Operating reserve display                  | Red LED (off)                     |
| Protection class                           | IP67                              |
| Corrosion resistance classification CRC    | 4 - Very high corrosion stress    |
| Laser protection class                     | 1                                 |