

# Retro-reflective sensor SOEG-RSP-Q20-NP-S-2L-TI

Part number: 537751  
Product to be discontinued

FESTO

With polarized light, block design

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



## Data sheet

| Feature  | Value  |
|--|--|
| Design   | Block design                                   |
| Conforms to standard                                 | EN 60947-5-2                                   |
| 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                                    | Position                                       |
| Measuring principle                                  | Optoelectronic                                 |
| Measurement method                                   | Retro-reflective sensor                        |
| Type of light  | Red, polarized                                 |
| Max. spot diameter                                   | 75 x 75 mm at 2 m                              |
| Working range  | 0 ... 2,500 mm                                 |
| Ambient temperature                                  | -20 ... 60 °C                                  |
| Reference material                                   | Reflector, 84 mm dia.                          |
| Switch output  | NPN  |
| Switching element function                           | Switchable                                     |
| Max. switching frequency                             | 1,000 Hz                                       |
| Max. output current                                  | 100 mA   |
| Voltage drop   | ≤ 2.4 V  |
| Short circuit strength                               | Pulsing  |
| Operating voltage range DC                           | 10 ... 30 V                                    |
| Residual ripple                                      | 10 %   |
| Idle current   | 35 mA  |
| Polarity protected                                   | for all electrical connections                 |
| Electrical connection                                | Plug<br>M8x1<br>4-pin                          |
| Size   | 20x32x12 mm                                    |
| Mounting type  | with through hole                              |
| Product weight                                       | 7 g  |
| Material housing                                     | ABS  |
| Operating status display                             | Yellow LED                                     |
| Operating reserve display                            | Green LED                                      |
| Setting options                                      | Teach-In<br>Teach-in via electrical connection |
| Setting range lower limit                            | 0 mm   |
| Upper limit of adjustment range                      | 2,500 mm                                       |
| Ambient temperature with flexible cable installation | -5 ... 60 °C                                   |
| Protection class                                     | IP67   |
| Corrosion resistance classification CRC              | 2 - Moderate corrosion stress                  |