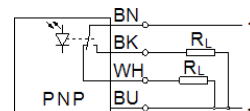
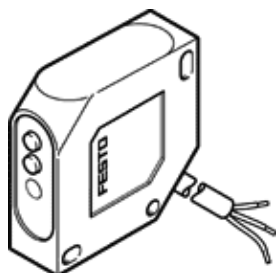


# diffuse sensor SOEL-RTH-Q50-PA-K-3L

Part number: 537777  
Product to be discontinued

FESTO

With background suppression, 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
Authorisation	RCM Mark c UL us - Listed (OL)
CE mark (see declaration of conformity)	to EU directive for EMC
Materials note	Free of copper and PTFE
Measured variable	Position
Measuring principle	Optoelectronic
Measurement method	Diffuse reflection sensor with background suppression
Type of light	Pulsed laser Red, 650 nm
Working range	50 ... 300 mm
Ambient temperature	-20 ... 45 °C
Max. grey tone shift	5 %
Reference material	18 %
Switch output	PNP
Switching element function	Antivalent
Max. switching frequency	2,500 Hz
Max. output current	200 mA
Voltage drop	≤ 2.4 V
Short circuit strength	Pulsing
Operating voltage range DC	10 ... 30 V
Residual ripple	10 %
Idle current	50 mA
Polarity protected	for all electrical connections
Electrical connection	Cable 4-core
Cable length	3 m
Material cable sheath	TPE-U(PUR)
Size	50x50x17 mm
Mounting type	with through hole
Product weight	122 g
Material housing	ABS
Ready status display	Green LED
Operating status display	Yellow LED
Operating reserve display	Red LED (off)
Setting options	Potentiometer
Setting range lower limit	50 mm
Upper limit of adjustment range	300 mm
Ambient temperature with flexible cable installation	-5 ... 45 °C
Protection class	IP67
Corrosion resistance classification CRC	4 - Very high corrosion stress
Laser protection class	1