# distance sensor
SOEL-RTD-Q50-PP-S-7L

Part number: 537823
Product to be discontinued

For distance measurement, block design

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

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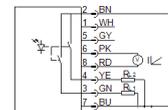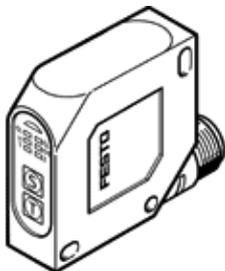
Data sheet

Feature	Value
Design	Block design
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	Travel
Measuring principle	Optoelectronic
Measurement method	Distance sensor
Type of light	Laser
	Red
Max. spot diameter	2x4 mm
Working range	80 ... 300 mm
Ambient temperature	0 ... 45 °C
Reference material	18 %
Travel resolution	0.3 mm
Switch output	PNP
Switching element function	Antivalent
Max. switching frequency	1,000 Hz
Max. output current	100 mA
Voltage drop	<= 2.4 V
Analogue output	4 - 20 mA
Short circuit strength	Pulsing
Operating voltage range DC	16 ... 30 V
Residual ripple	10 %
Idle current	40 mA
Polarity protected	for all electrical connections
Electrical connection	Plug
	M12x1
	8-pin
Material cable sheath	TPE-U(PUR)
Size	50x50x17 mm
Mounting type	with through hole
Product weight	42 g
Material housing	ABS
Ready status display	Green LED
Operating status display	LED
Setting options	Teach-In
	Teach-in via electrical connection
Setting range lower limit	80 mm
Upper limit of adjustment range	300 mm
Ambient temperature with flexible cable installation	0 ... 45 °C
Protection class	IP67
Corrosion resistance classification CRC	4 - Very high corrosion stress
Laser protection class	1