

RE/RF Proximity Switch

Engineered for ANSI B93.15/NFPA interchangeability with the durability required for Medium-duty applications.

Proximity switches for series RE/RF cylinder are inductive type switches with sensing probe that “looks” at the cushion collar or button to provide extended or retracted indication. Since the probe is inside the cylinder. Harsh external environments don’t affect sensing. The 2-wire circuit will operate on AC or DC and works as reliably as a programmable controller. Proximity switches will meet UL requirements for 3000-psi (210 bar) hydraulic cylinder. Switch will allow 304° rotations. Short Circuit protection is standard feature on the proximity switch. SCP protects the switch from shorts in load or line. Upon sensing short condition, the switch assumes a non-conducting mode. The fault condition must be removed and power turned off in order to reset the switch. This feature prevents unintended automatic restarts. The switch indicated when it is in SCP mode by flashing both leads. Torque the ¼-20 mounting screws to 15 ft-lb (20 Nm).

Dimensional guidance below

Note: Not available - Proximity switch for 1.50” Bore at position 2 & 4 is not available for 07, 08 and 12 mounts

Proximity Switch

Common Data

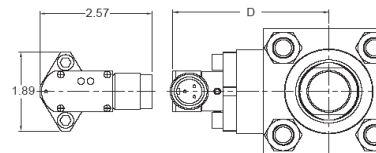
Product name	Strokemaster
Mounting in steel	shielded
Rated operating distance Sn	2mm
Assured operating distance Sa	0...1.6mm
Repeatability R	≤ 5%
Hysteresis	≤ 15%
Power indication	yes
Function indication	yes
Ambient temperature range	-25...+70°C
Polution Degree	3
IEC-Code	I1B13AP2
Time delay before availability	≤ 40ms
Particular characteristics	pressure rated to 207

Mechanical Data

Measurements BxHxT or DxT	112.17 x 2.062in+37m
Housing material	1.4104
Material of sensing face	Ceramic
Degree of protection	IP67IP
Connection	Connector S4
Schock: Halfsinus, 30 gn, 11ms	
Vibration: 55 Hz, 1mm Amplitude, 3 x 30 Minutes	

Electrical Data

Current type	DC
Wiring	3-Wire
switching function	normally-open
Output signal	PNP
Rated operational voltage	24 DCV
Rated operational current	200mA
Supply voltage	10...30 DCV
Ripple	≤ 15%
max. switching frequency	15Hz
No-load supply current	≤ 18/≤ 10mA
Off-state current	≤ 80µA
Voltage drop	≤ 2.5/-V
Short circuit protection	yes
Protected against polarity reversal	yes



Bore	Rod	RE-RF Switch Part No	Probe Length	D Max.
1.50	0.63	C-554-2	1.250	3.18
1.50	1.00	C-554-2	1.250	3.58
1.50	CAP	C-554-3	2.062	3.44
2.00	0.63	C-554-3	2.062	3.99
2.00	1.00	C-554-3	2.062	4.14
2.00	1.38	C-554-2	1.250	3.55
2.00	CAP	C-554-3	2.062	3.97
2.50	0.63	C-554-2	1.250	3.18
2.50	1.00	C-554-2	1.250	3.33
2.50	1.38	C-554-1	1.025	3.33
2.50	1.75	C-554-1	1.025	3.51
2.50	CAP	C-554-3	2.062	3.77
3.25	1.00	C-554-3	2.062	4.14
3.25	1.38	C-554-2	1.250	3.55
3.25	1.75	C-554-2	1.250	3.74
3.25	2.00	C-554-2	1.250	3.93
3.25	CAP	C-554-3	2.062	3.88
4.00	1.00	C-554-3	2.062	4.14
4.00	1.38	C-554-3	2.062	4.36
4.00	1.75	C-554-3	2.062	4.55
4.00	2.00	C-554-2	1.250	3.93
4.00	2.50	C-554-1	1.025	3.95
4.00	CAP	C-554-3	2.062	3.88
5.00	1.00	C-554-4	2.875	4.96
5.00	1.38	C-554-3	2.062	4.36
5.00	1.75	C-554-3	2.062	4.55
5.00	2.00	C-554-3	2.062	4.74
5.00	2.50	C-554-3	2.062	4.99
5.00	3.00	C-554-2	1.250	4.43
5.00	3.50	C-554-1	1.025	4.45
5.00	CAP	C-554-4	2.875	4.69
6.00	1.38	C-554-4	2.875	5.18
6.00	1.75	C-554-4	2.875	5.36
6.00	2.50	C-554-3	2.062	4.99
6.00	4.00	C-554-3	2.062	4.80
6.00	CAP	C-554-4	2.875	4.80
8.00	1.38	C-554-5	3.775	6.08
8.00	1.75	C-554-5	3.775	6.26
8.00	3.50	C-554-4	2.875	6.30
8.00	5.50	C-554-3	2.062	6.42
8.00	CAP	C-554-6	4.560	5.84

* For bores above 8.00" consult Eaton



WARNING This product is intended for users having technical expertise. Improper use, selection or application of the cylinders and/or their related accessories can cause or result in Death, Bodily Injury and/or Property Damage. For assistance, please consult an Danfoss representative at 952-937-9800.