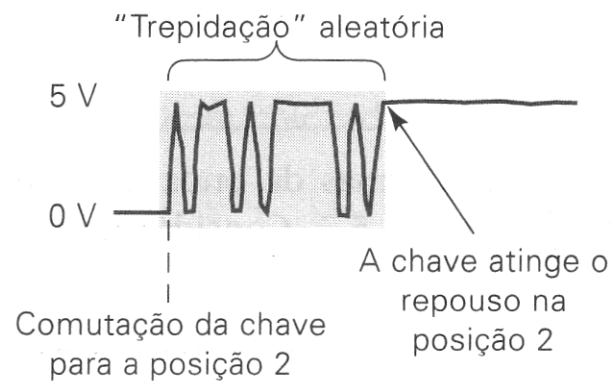
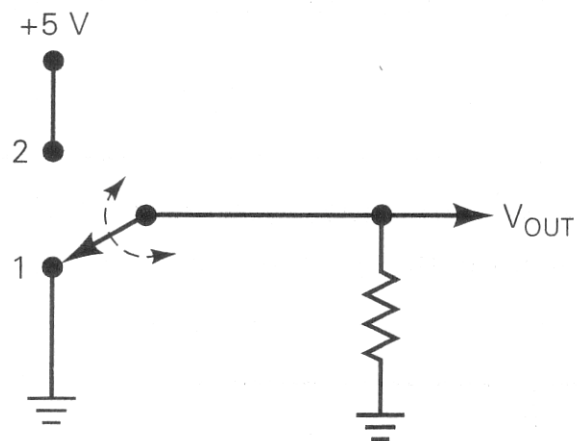


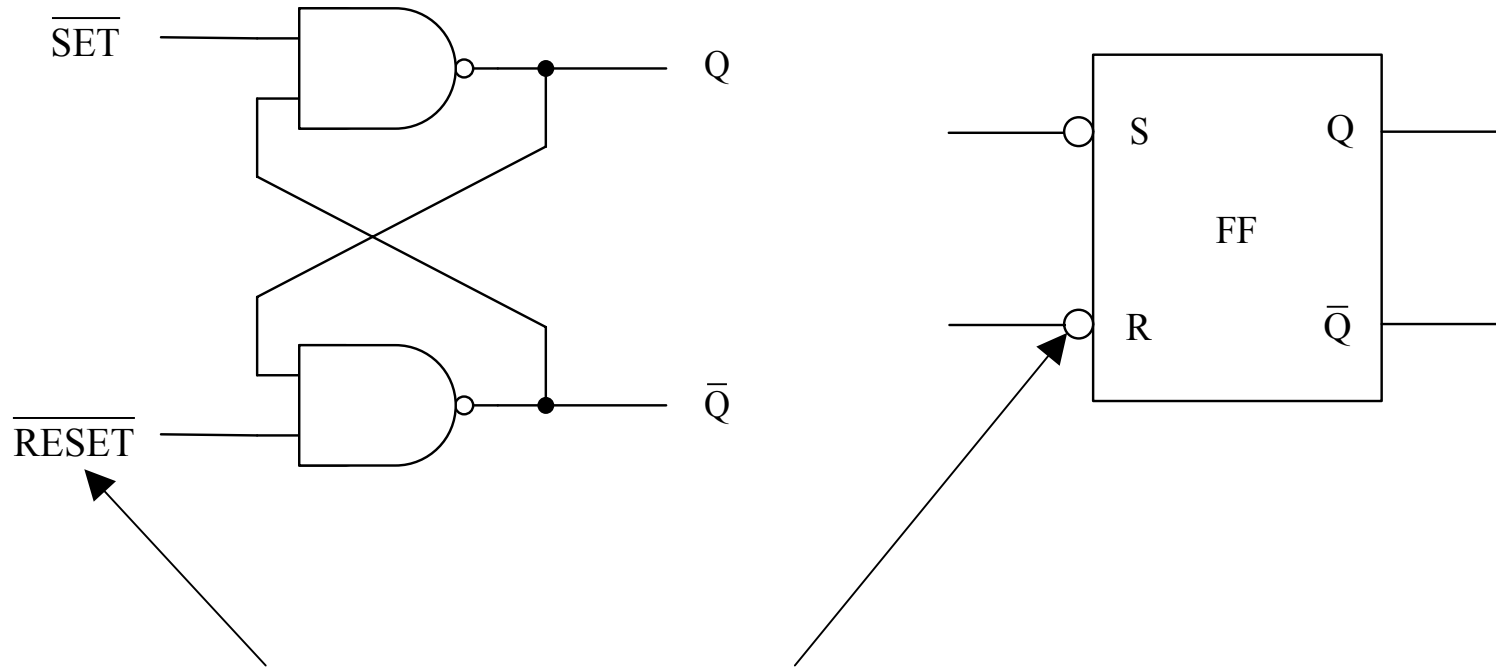
Problema prático: trepidação de contato



Como eliminar o efeito da trepidação?

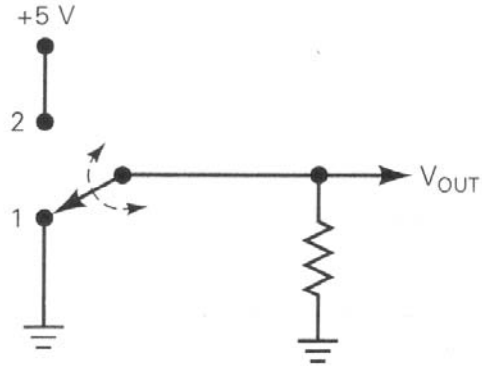
Flip-flop RS com portas NAND

Representações

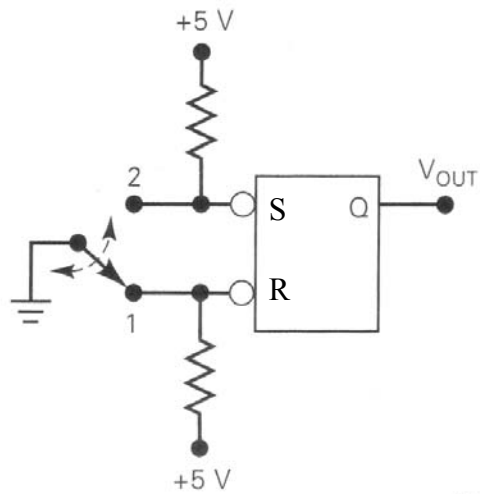
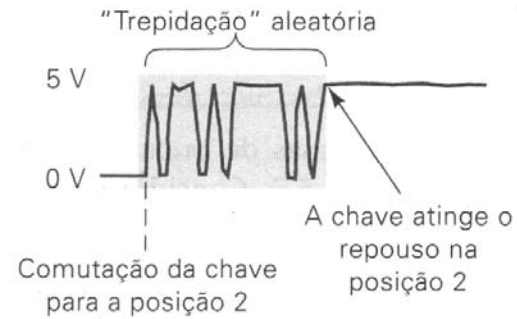


SÍMBOLOS para entrada ativa em nível lógico baixo

Eliminação da trepidação de contato



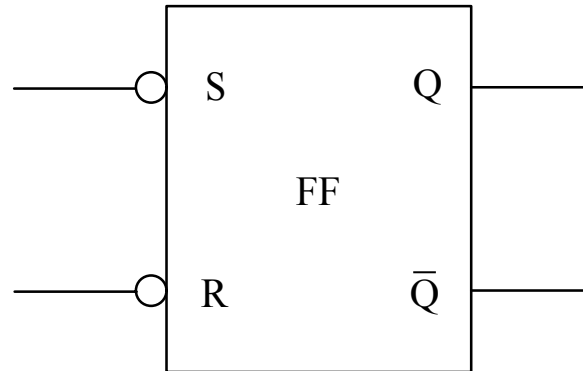
(a)



(b)

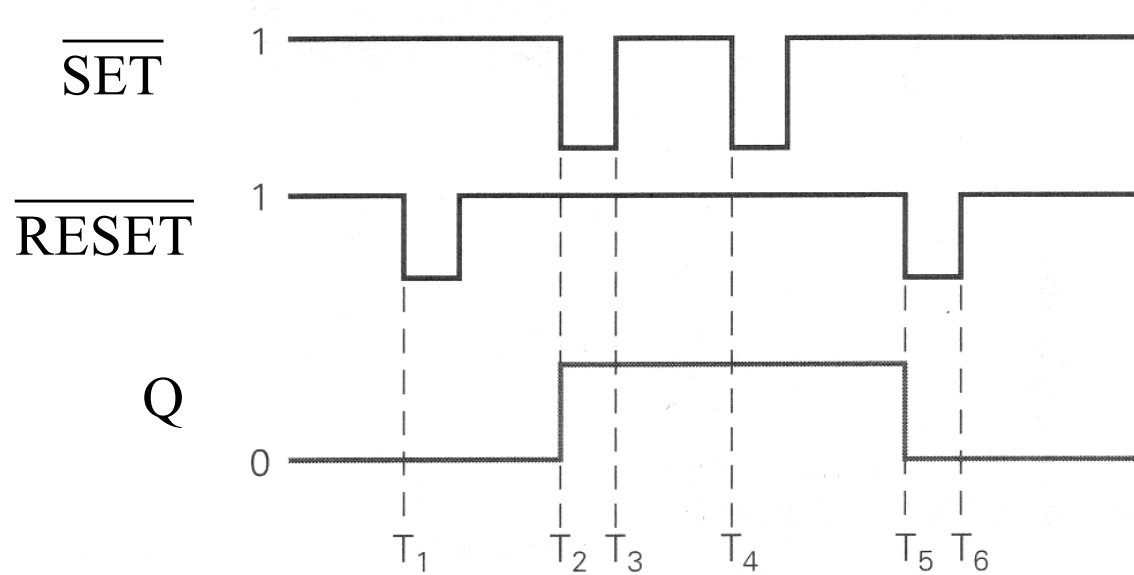


Resumindo



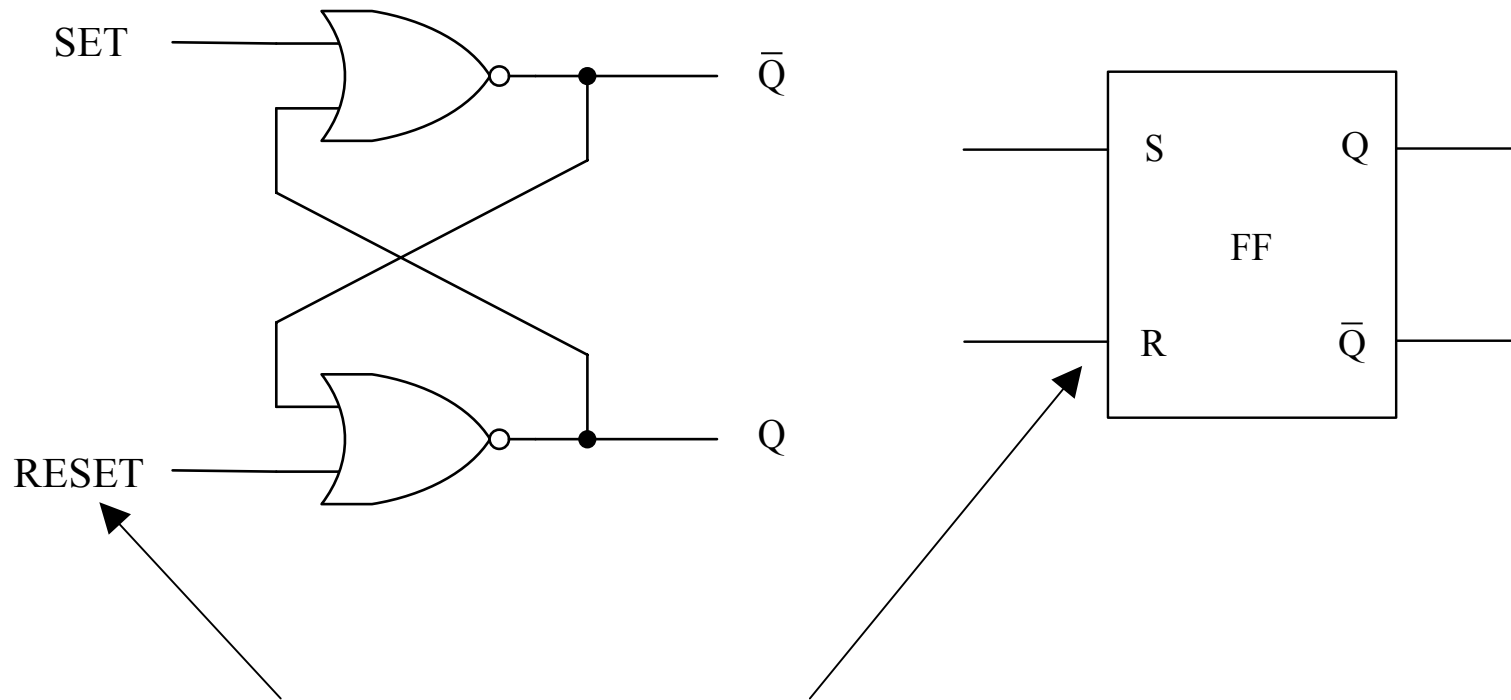
$\overline{\text{SET}}$	$\overline{\text{RESET}}$	Saída
1	1	Não muda
0	1	$Q = 1$
1	0	$Q = 0$
0	0	Inválida ($Q = \bar{Q} = 1$)

Exemplo com formas de onda



Flip-flop RS com portas NOR

Representações



Símbolos para entrada ativa em nível lógico alto