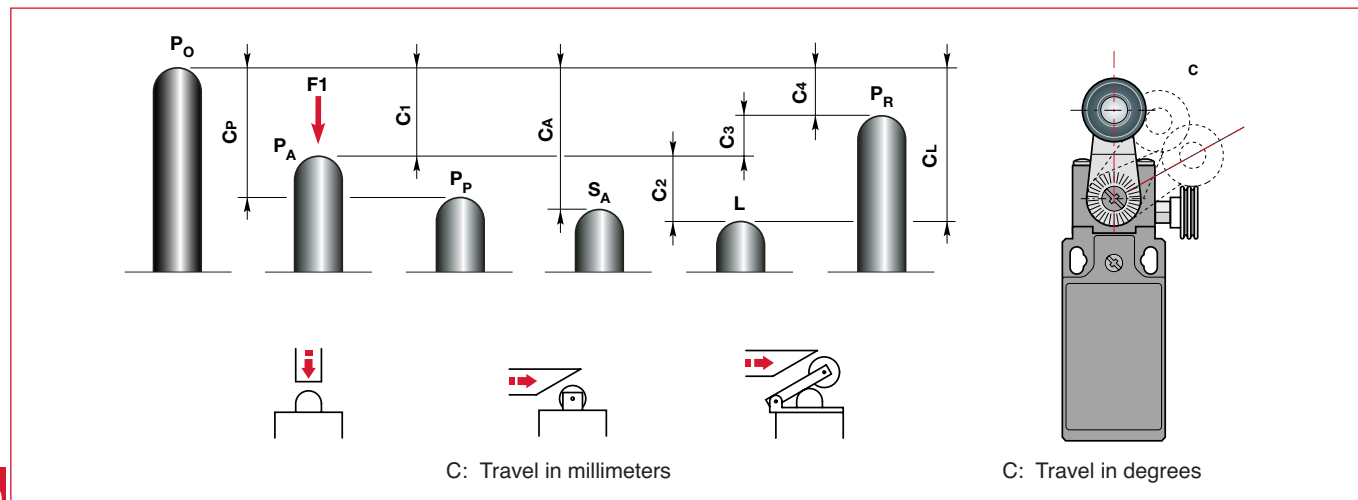


Latch & manual reset Technical data

Travel and operation diagrams



P_o Free position:

position of the switch actuator when no external force is exerted on it.

P_A Operating position:

position of the switch actuator, under the effect of force F_1 , when the contacts leave their initial free position.

P_P Positive opening position:

position of the switch actuator from which positive opening is ensured.

S_A Latching point:

point of no return of the switch actuator beyond which the opened status of the (N.C.) contact(s) is maintained. Unlocking will only occur after deliberate action on the reset button.

L Max. travel position:

maximum acceptable travel position of the switch actuator under the effect of a force F_1 .

P_R Release position:

position of the switch actuator when the contacts return to their initial free position.

C_1 Pre-travel (average travel):

distance between the free position P_o and the operating position P_A .

C_P Positive opening travel:

minimum travel of the switch actuator, from the free position, to ensure positive opening operation of the normally closed contact (N.C.).

C_A Latching travel (average travel):

distance between the free position P_o and the latching point S_A .

C_2 Over-travel (average travel):

distance between the operating position P_A and the max. travel position L.

C_L Max. travel (maximum travel):

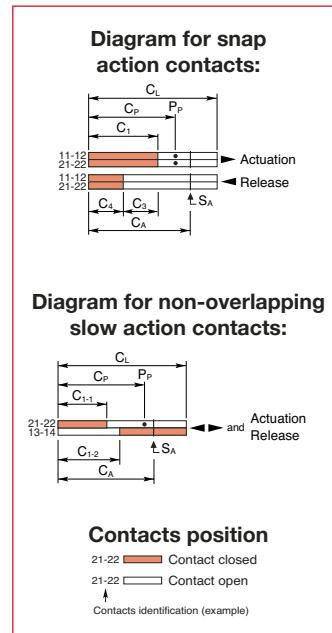
distance between the free position P_o and the max. travel position L.

C_3 Differential travel (C_1 - C_P) (average travel):

travel difference of the switch actuator between the operating position P_A and the release position P_R .

C_4 Release travel (average travel):

distance between the release position P_R and the free position P_o .



Note: for slow action contacts, $C_3 = 0$, C_{1-1} = pre-travel of contact 21-22, C_{1-2} = pre-travel of contact 13-14.

Examples:

LS30P13D11-R

non-overlapping slow action contacts

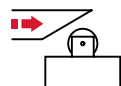
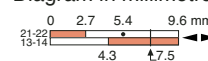


Diagram in millimetres / cam travel



LS30P41L02-R

simultaneous slow action contacts

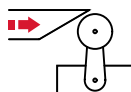
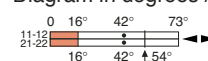


Diagram in degrees / lever rotation



LS30P11B02-R

snap action contacts

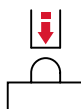


Diagram in millimetres / plunger travel

