

Latch and manual release



PLNA1RAG

Order code	Contacts	Degree of protection	Qty pre pkg	Wt
		IEC	n°	[kg]

Top roller push plunger.

PLNA1RAG	1NC	IP40	1	0.220
PLNA1RAGW	1NC	IP65	1	0.230

Direct (positive) opening action safety function according to IEC/EN/BS 60947-5-1.

Manual reload and magnetic release



PLA1AM

Order code	Contacts	Degree of protection	Qty pre pkg	Wt
		IEC	n°	[kg]

Top push rod plunger.

PLA1AM	1NC	IP40	1	0.245
PLA1AMW	1NC	IP65	1	0.250

Top roller push plunger.

PLA1RM	1NC	IP40	1	0.250
PLA1RMW	1NC	IP65	1	0.260

Direct (positive) opening action safety function according to IEC/EN/BS 60947-5-1.



PLA1RMW

Bi-directional



PLN978

Order code	Contacts	Degree of protection	Qty pre pkg	Wt
		IEC	n°	[kg]

Rod plunger.

PLN978	2NC independent	IP65	1	0.265
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Direct (positive) opening action safety function according to IEC/EN/BS 60947-5-1.

Type	Travel [mm (in)] (The arrows indicate the direction of operation)	open closed
PLNA1RAG PLNA1RAGW		
PLA1AM PLA1AMW PLA1RM PLA1RMW		
PLN978		

General characteristics

The PL limit switches were initially made specifically for hoisting or lifting duty and then used in other diverse applications. The type with latch and manual release as well as the one with manual reload and magnetic release are designed so the switch remains opened after the switching of the NC contact. In the first instance, the contact closing is made by pushing the release button. In the second case, the reloading is obtained by pushing the shaft end or else pulling it from the top for the IP65 types.

The limit switches with dual operation can be replaced by two standard switches, for the stop control of moving mechanisms with two directions of running (e.g. automatic doors). It is equipped with two opposed operating mechanisms and one NC contact for each mechanism (i.e. 2NC).

The simple constructive design, oversize contacts and careful material combinations warrant safe and constant operation. The metal-alloy housing and the thermoplastic mechanism material of first-rate mechanical features assure reliability and durability with any type of operating condition.

Operational characteristics

- Maximum operating rate: 3600 cycles/h
- Mechanical life: >10 million cycles
- IEC utilisation category:
 - DC13 duty: 10A 24V
 - AC15 duty: 5A 250V, 3A 400V
- IEC conventional thermal current Ith: 10A
- IEC rated insulation voltage: 400VAC
- Contact resistance: <10mΩ
- Short-circuit backup protection: 10A gG/SC quick fuse
- Housing cable entry: PG11 (PL...W and PLN978 types only complete with cable gland)
- Cable connection: screw terminal with clamp suitable for cables up to 2.5mm² / 14 AWG
- Tightening torque:
 - Switch fixing: 2.5Nm / 22.1lb.in
 - Contact terminals: 0.8Nm / 7lb.in
 - Body lid screw fixing: 0.8Nm / 7lb.in
- Ambient conditions:
 - Operating temperature: -25...+70°C
 - Storage temperature: -40...+70°C
 - Pollution degree: 3
 - IEC degree of protection: IP40 / IP65 (see table indications).

Certifications and compliance

Certifications obtained: EAC.
Compliant with standards: IEC/EN/BS 60947-5-1, IEC/EN/BS 60204-1, EN/BS 81-1.