

**Latch and manual release**



PLN A1 RAG

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

Top roller push plunger.

PLN A1 RAG	1NC ①	IP40	1	0.220
PLN A1 RAG W	1NC ①	IP65	1	0.230

① Direct opening operation ⊖; safety function according to IEC/EN 60947-5-1.

Type	Travel [mm] (The arrows indicate the direction of operation)	open closed
PLN A1 RAG PLN A1 RAG W		
PL A1 AM PL A1 AM W PL A1 RM PL A1 RM W		
PLN 978		

**Manual reload and magnetic release**

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PL A1 AM

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

Top push rod plunger.

PL A1 AM	1NC ①	IP40	1	0.245
PL A1 AM W	1NC ①	IP65	1	0.250

Top roller push plunger.

PL A1 RM	1NC ①	IP40	1	0.250
PL A1 RM W	1NC ①	IP65	1	0.260

① Direct opening operation ⊖; safety function according to IEC/EN 60947-5-1.



PL A1 RM W

**Bi-directional**



PLN 978

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

Rod plunger.

PLN 978	2NC ① Independent	IP65	1	0.265
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① Direct opening operation ⊖; safety function according to IEC/EN 60947-5-1.

**General characteristics**

The PLN limit switches were initially made specifically for hoisting or lifting duty 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 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
- Utilisation category:
  - DC13 duty: 10A 24V
  - AC15 duty: 5A 250V, 3A 400V
- Conventional thermal current Ith: 10A
- Rated insulation voltage: 400VAC
- Contact resistance: <10mΩ
- Short-circuit backup protection: 10A gG quick fuse
- Degree of protection: IP40 / IP65 (see table indications)
- Housing cable entry: PG11 (PL...W and PLN 978 types only, complete with cable gland)
- Cable connection: screw terminal with clamp suitable for cables up to 2.5mm<sup>2</sup>
- Tightening torque for switch fixing: 2.5Nm
- Ambient conditions:
  - Operating temperature: -25 ... +70°C
  - Storage temperature: -40...+70°C
  - Suitable for ambient pollution degree: 3.

**Certifications and compliance**

Certifications obtained: IMQ, GOST.  
 Compliant with standards: IEC/EN 60947-5-1, IEC/EN 60204-1, IEC/EN 60081-1.