

**ITEM 090541 N1AR502AM-M**

Description	Technical data	Accessories	Downloads
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**Features**

- › Plunger material stainless steel
- › Housing according to DIN 43693
- › With exterior diaphragm

**Approvals**



**Mechanical values and environment**

Contact bounce time	< 3ms
Contact closing time	< 4ms
Design	Housing according to DIN 43693
Housing material	Anodized die-cast alloy
Weight	

	Net	0,25 kg
Ambient temperature		-5 ... 80 °C
Degree of protection		IP67
Mechanical life		30 x 10 <sup>6</sup>
Contact material		Silver alloy, gold flashed
Switching principle		Snap-action switching contact
Installation position		Any
Number of switching elements		1
Number of NC contacts		1
Number of NO contacts		1
Connection	2 x	M16 x 1.5
Approach speed	max.	0,01 ... 50 m/min
Actuating element		Roller plunger <sup>[1]</sup>
Roller diameter		5 mm
Actuating force		min.20 N
Operating point accuracy		± 0.01 <sup>[2]</sup>

### Electrical connection ratings

Rated thermal current I <sub>th</sub>		8 A
Utilization category according to EN 60947-5-1	AC-15	6A 230V
	DC-13	6A 24V
	AC-12	8 A, 250 V
Short circuit protection according to IEC 60269-1	(Fuse)	8A gG
Rated insulation voltage U <sub>i</sub>		250 V
Rated impulse withstand voltage U <sub>imp</sub>		2,5 kV
Switching current	Min. at DC 12V	10 mA
Connection cross-section		0,34 ... 1,5 mm <sup>2</sup>

### Miscellaneous

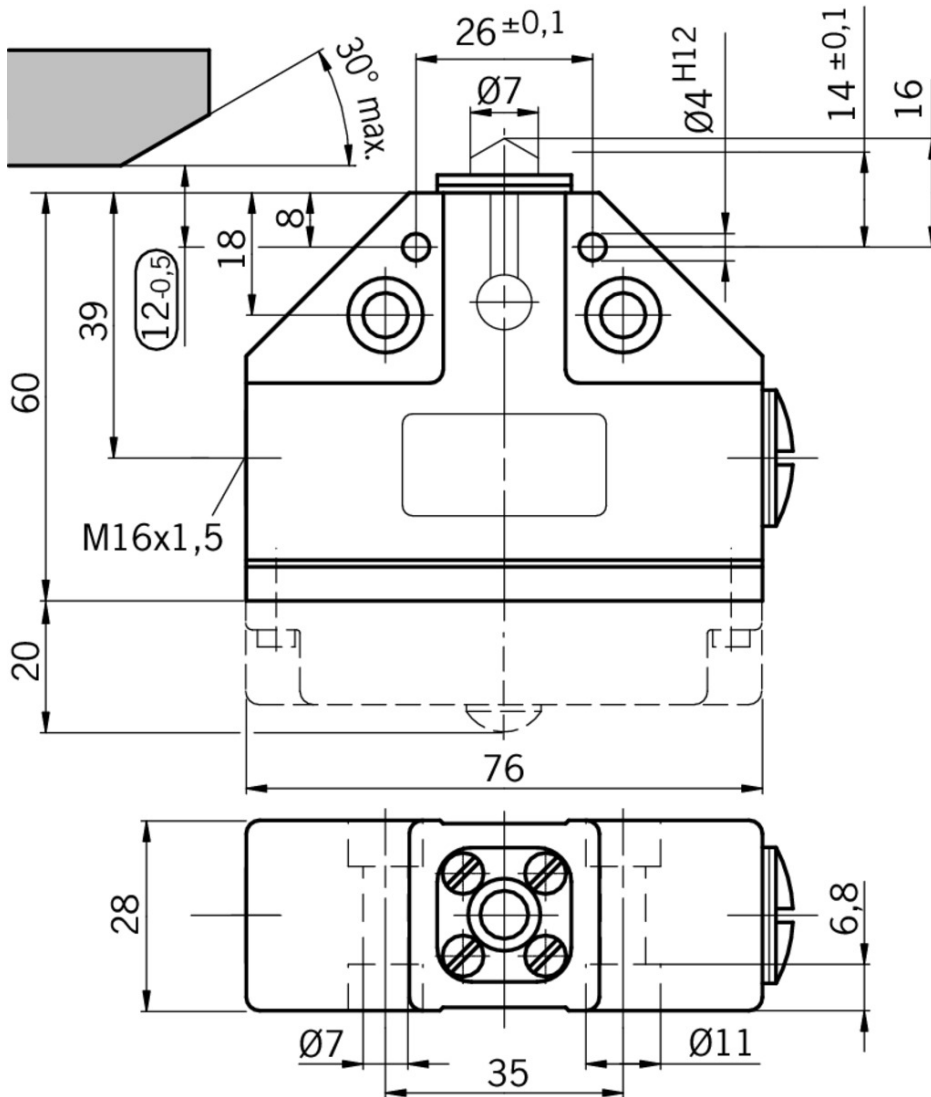
Additional information		Exterior diaphragm = AM <sup>[3]</sup>
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[1] Plain bearing

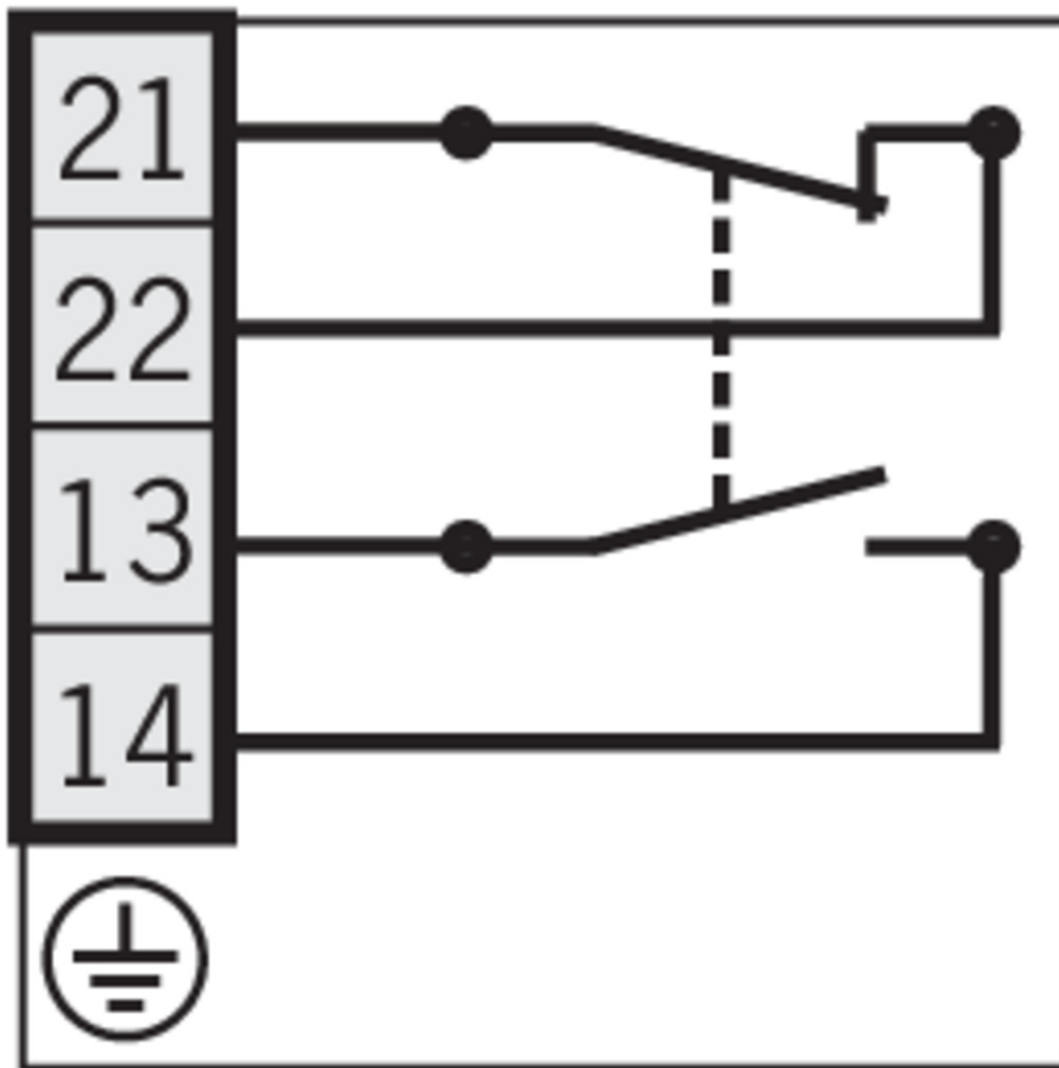
[2] The reproducible switching point accuracy refers to the axial travel of the plunger after the switching element ES 502 E has been run-in with approx. 2000 operating cycles.

[3] The exterior diaphragm provides additional protection to the plunger guide. Plunger sticking, primarily caused by resinous lubricating coolants, can be prevented by this exterior diaphragm version.

### Dimension drawing



## ES502E










### Instructions

✓ Manual de instrucciones Finales de carrera unitarios de precisión N1A

	Doc. no.	Version	Language	Download
Betriebsanleitung Präzisions-Einzelgrenztaster N1A Operating Instructions Precision Single Limit Switches N1A	2032309	12-01/18	 	 0.8 MB
Mode d'emploi Monopistes de précision N1A	2032309	12-01/18		 0.4 MB
Manual de instrucciones Finales de carrera unitarios de precisión N1A	2032309	12-01/18		 0.4 MB
Istruzioni di impiego Finecorsa di precisione singoli N1A	2032309	12-01/18		 0.4 MB

### Catalogs

 Positionsschalter und Reihengrenztaster Position Switches and Multiple Limit Switches  
Interrupteurs de position et boîtiers multipistes

	<b>Doc. no.</b>	<b>Version</b>	<b>Language</b>	<b>Download</b>
Positionsschalter und Reihengrenztaster	157835	01-03/18		 4.1 MB
Interrupteurs de position et boîtiers multipistes	157837	01-03/18		 4.1 MB
Position Switches and Multiple Limit Switches	157836	01-03/18		 4.1 MB

**CAD data**

CAD data for this item on TraceParts