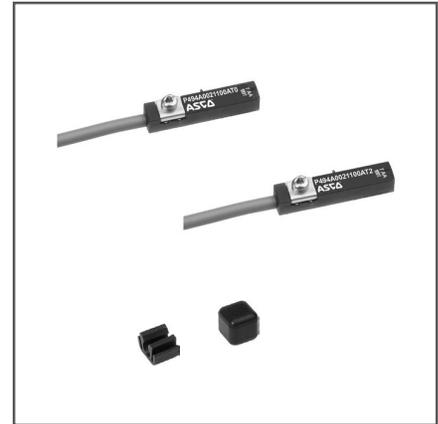
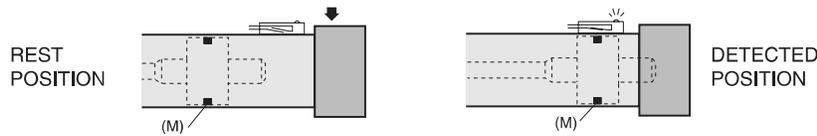


Detectors designed for use in explosive atmosphere zones 0-20, 1-21, 2-22, according to **ATEX directive 2014/34/EU**.

### FUNCTIONAL DESCRIPTION

A permanent magnet (M) which is mounted on the piston of the air cylinder activates the reed switch of the non-contact magnetic position detector fastened on the outside of the non-magnetic cylinder barrel.



### DETECTOR CHARACTERISTICS

ATEX APPROVAL	II 1G Ex ia IIC T4 Ga II 1D Ex ia IIIC T135°C Da	II 3G Ex nA IIC T4 Gc X II 3D Ex tc IIIC T125°C Dc X
MAX. SWITCHING POWER	-	5 W
SWITCHING VOLTAGE	-	5 to 30 VDC
MAX. SWITCHING CURRENT	-	100 mA
WIRING	-	PNP
REVERSE POLARITY PROTECTION	yes	yes
OVERLOAD PROTECTION	no	no
SHORT-CIRCUIT PROTECTION	no	no
VOLTAGE DROP (EN 60,947-5-2)	-	< 5 volt
CURRENT CONSUMPTION	≤ 1 mA* , ≥ 2 mA**	-
NOMINAL VOLTAGE	8,2 V	-
INTERNAL CAPACITANCE	10 nF	-
INTERNAL INDUCTANCE	400 µH	-
HYSTERESIS	1 mm	1 mm
BOUNCE TIME	0,6 ms	≤ 0,6 ms
BREAK TIME	0,1 ms	≤ 0,1 ms
SENSITIVITY	2,1 mTesla	2,1 mTesla
REPEATABILITY	< 0,2 mm	< 0,2 mm
WORKING TEMPERATURE	- 25°C , + 70°C	- 20°C , + 60°C
HOUSING	PA + GF overmoulding	PA + GF overmoulding
CABLE	PVC	PUR
DEGREE OF PROTECTION (IEC 60529)	IP67	IP65 / IP67
PROTECTION CLASS	class III	class III
SIGNAL INDICATION	yellow diode (LED) which lights up when the contact is established	
ELECTROMAGNETIC COMPATIBILITY (EMC)	EN 61000-4-2 ESD (electrostatic discharge): -CD/8kV AD EN 61000-4-3 radiated RF fields: 10 V/m (80 ... 2000MHz) EN 61000-4-4 electrical fast transients/burst: 2kV EN 61000-4-6 conducted RF fields: 10 V (0,15 ... 80 Mhz) EN 55011: class B	
CERTIFICATION	CE, ATEX 1G/D, ATEX 3G/D	

\* without signal      \*\*: with signal

### CHOICE OF DETECTOR

	Use with barrier Max. values: U=15 V, I=50 mA, P=120 mW	5 to 30 Volt DC
Connection	PVC lead, 5 m long 2 wires 0,14 mm <sup>2</sup> stripped ends 	PUR lead, 5 m long 2 wires 0,14 mm <sup>2</sup> stripped ends 
Protective cover supplied with detector	-	
Weight (g)	50	
Compatible cylinders:	<b>STANDARD CATALOGUE NUMBER detector</b> detector supplied with cable holding clip and adjustment position stop	
449 - 453 <sup>(1)</sup>	<b>P494A0021100AT0</b>	<b>P494A0021100AT2</b>
441 - 435 - 438 - 450 - 454 <sup>(2)</sup>		

<sup>(1)</sup> Detector designed for direct fitting to "T" cylinder grooves

<sup>(2)</sup> Fastening kit required

**ACCESSORIES AND OTHER ELECTRICAL CHARACTERISTICS:** see following page

