

PE converter Type PE-¹/₈

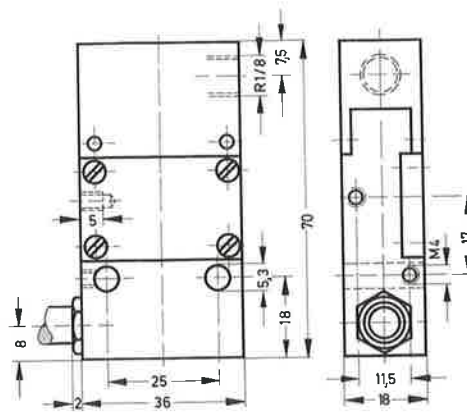
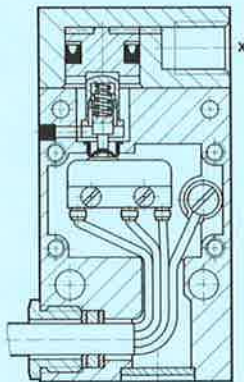


A pneumatic signal at the pilot port X pressurises a diaphragm, which in turn actuates the stem of a microswitch (changeover switch).

Permissible electrical load

DC			AC		
Voltage V =	Resis- tive load A	Induc- tive load A	Voltage V ~	Resis- tive load A	Induc- tive load A
up to 15	10	10	125	5	5
30	5	3	250	5	5
50	1	1			
75	0.75	0.25			
125	0.5	0.03			
250	0.25	0.02			

The above values are guide values, based on a switching frequency of 60 cycles/min.

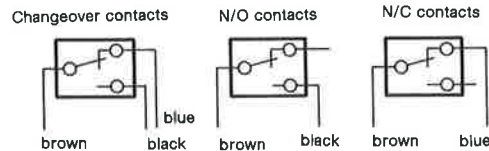


At higher switching frequencies, or when high inductances need to be switched, an R-C spark arrester must be provided for DC operation. This should be preferably be wired parallel to the switch or load, with R and C in series.

The following relationships should be observed for spark suppression elements.

The value of the capacitor C in μF should be as great as the load current I in A, and should be rated for an operating voltage of at least 630 to 1000 V. The value of the resistor R should correspond to the load resistance, and should be rated for approx. $\frac{1}{2}$ to 1 W.

Contact configurations:



Order code	Part No./Type	3344 PE- ¹ / ₈
Medium		Compressed air, filtered (lubricated or unlubricated)
Design		Pneumatically-actuated electrical microswitch (changeover switch)
Mounting		2 through-holes in housing
Connection	pneumatic electrical	G ¹ / ₈ 4-core cable, with protective conductor, 1 m long
Pressure range		0.8 to 10 bar
Switch-on pressure		> 0.8 bar
Switch-off pressure		< 0.35 bar
Switching capacity		see table
Switching frequency at max. load		200/min
Degree of protection to DIN 40050		IP 65
Temperature range		-10 to +60° C
Materials		Housing: anodized aluminium
Weight		0.225 kg