

## Low-pressure PE converter Type PE-1000

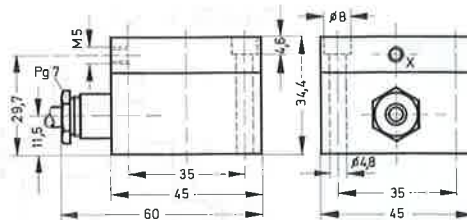
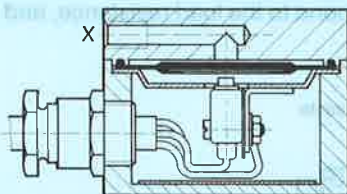


A pneumatic signal at the pilot port pressurises a diaphragm, which in turn actuates the stem of a microswitch (changeover switch).

### Permissible electrical load

DC			AC		
Voltage V=	Resistive load A (Ohm)	Inductive load A	Voltage V~	Resistive load A (Ohm)	Inductive load A
up to 15	15	5	up to 110	10	5
30	2	1	230	5	5
115	0.4	0.03			
230	0.2	0.02			

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

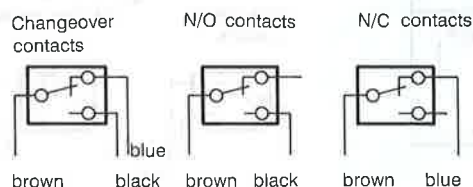


At higher switching frequencies, or when high inductances need to be switched, an R-C spark arrester must be provided for DC operation. This should preferably be wired parallel to the switch or load, with R and C in series.

The following relationships should be observed for spark suppression elements:

The value of the capacitor C in  $\mu\text{F}$  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 have a power rating of  $1/2$  to 1 W.

### Contact configurations:



X = Signal line

Order code	Part No./Type	3719 PE-1000
Medium		Compressed air (filtered, unlubricated)
Design		Pneumatically-actuated electrical microswitch
Mounting		2 through-holes in housing
Connection	pneumatic	M5
	electrical	4-core cable with protective conductor, 1 m long
Signal pressure range		0.1 to 1 bar
Switching capacity		See table
Degree of protection to DIN 40050		IP 65
Temperature range		-10 to +60 °C
Materials		Housing: anodized aluminium; seals: perbunan
Weight		0.230 kg