

The Economical Answer to Reed Switches

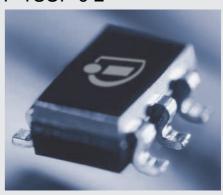
Applications

- Cover detection
- Closure detection for battery powered devices
 - flip phones (cordless and cellular), palms, notebooks, dockingstations, portable CD Players, electronic translators etc....
- High reliable replacement of reed switches in fully automatically assembled applications
- Door position detection in white goods:
 - washing machines, dish washer, dryer, refrigerator

Features

- Only 10 µW Power Consumption
- Min. Supply Voltage of 2.4 V
- Omnipolar magnetic switching characteristics
- Switching characteristic selectable by programming pin
- Tiny SMD package: P-TSOP-6 (pin-compatible to SOT-23)
- Standard SMD Package for fully automatic assembly in high volume production lines.
- Mercury-free

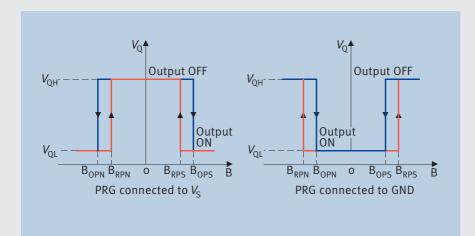
P-TSOP-6-2



TLE 4917

Low Power Hall IC Switch





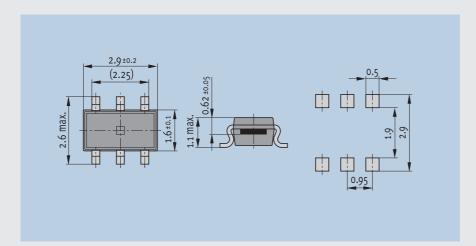
For extended convenience and ease of design, the output of the IC at $B_o = 0$ mT can be programmed to either HIGH or LOW state by connecting the programming pin to V_S or GND.

Parameter	Symbol	Limit Values			Unit	Notes
		min.	typ.	max.		
Operate Points	B _{OPS} B _{OPN}	3.5 -7	5 -5	7 -3.5	mT mT	PRG connected to $V_S^{1)}$
Release Points	B _{RPS} B _{RPN}	2.2 -6	4 -4	6 -2.2	mT mT	PRG connected to $V_S^{1)}$
Hysteresis	B _{HY}	0.2	1	2	mT	

1) Positive magnetic fields, are related to the approach of a magnetic south pole to the branded side of package

The outstanding sensitivity of the TLE 4917 allows the use of small and cost effective magnets in the final application.

As the IC is of omnipolar characteristic, the orientation of the poles of the magnet doesn't have to be controlled in the assembly.



Type	Sales Code	Package
TLE 4917	Q62705-K 605	P-TSOP-6-2

Package Information: The P-TSOP-6-2 packages is ideally suited for high volume applications.

It requires the same small PCB space as SOT-23 packages and can be used at the same soldering patterns.

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