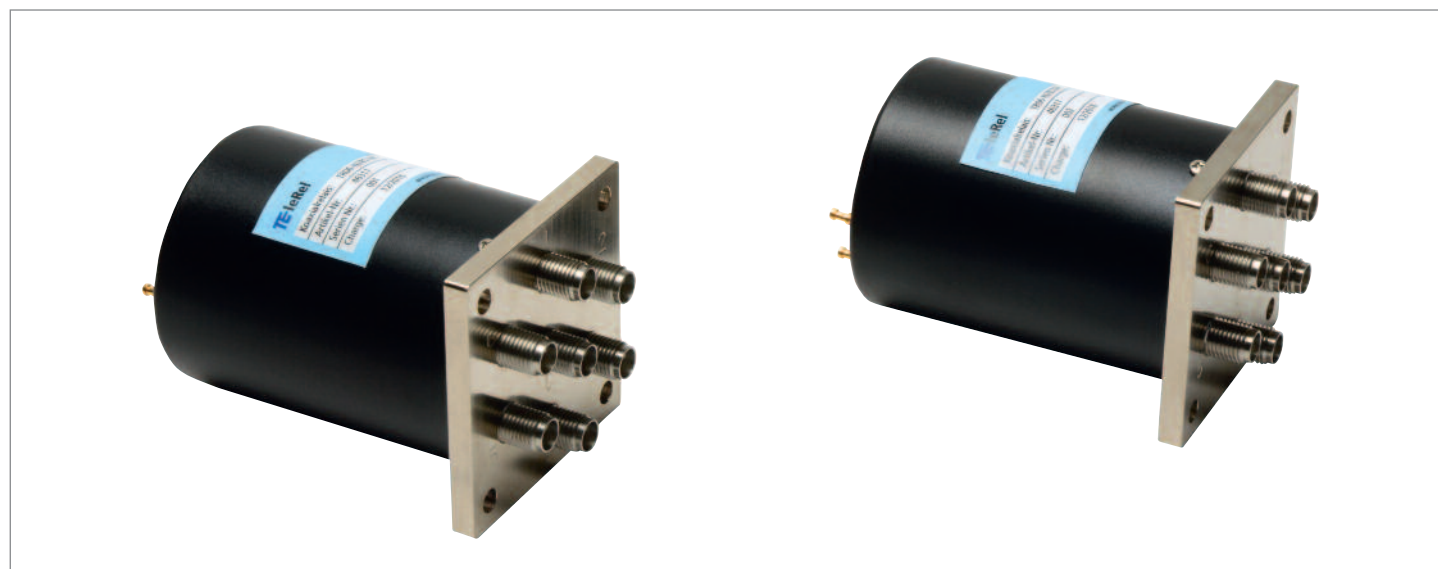


Coaxial Relay, Series TR03 to TR06

SP3T to SP6T / SMA (DC – 18 GHz) / K (DC – 40 GHz)

Switching: Normally Open



Specifications

Technical data	
Contact material	Plated Au
Switching Sequence	Break before make
Switching time	15 msec max.
Impedance	50 Ω
Temperature range	-25°C up to +65°C
Relative humidity	5 up to 85 %
Operation Life (Cycles)	1 million
Vibration (operation)	10 G RMS, 20 – 2000 Hz
Mechanical shock (non-operating)	50 G, 1/2 sine, 11 msec

Coil Voltage (V DC)	12	18	24	28
Current (mA) max. Normally Open	290	180	150	130

Other coil voltage options are available on request.

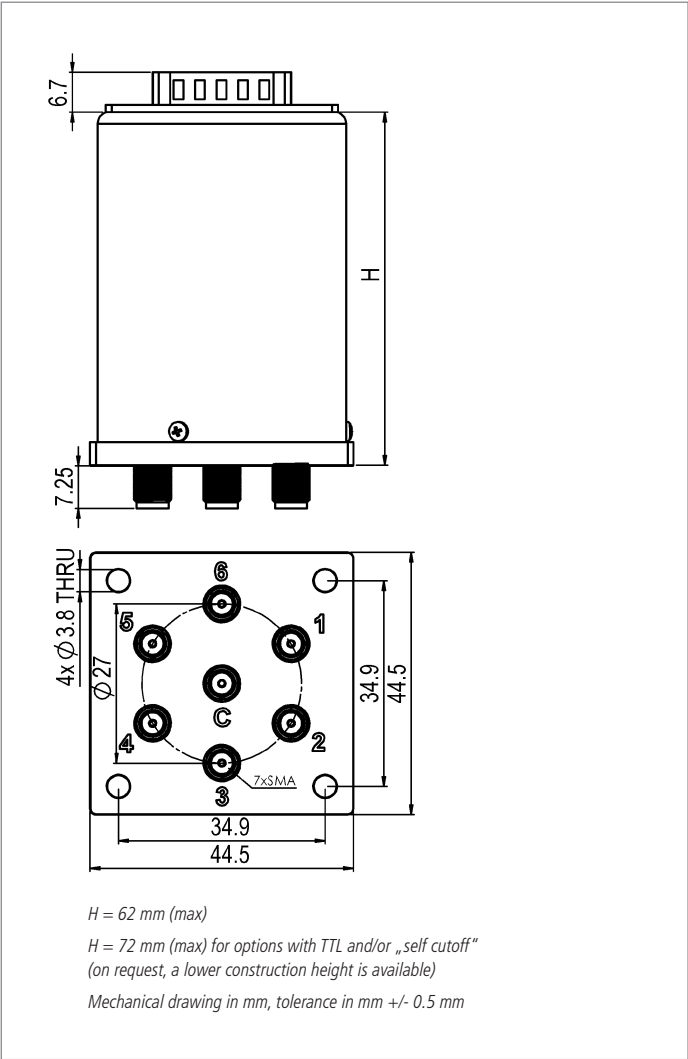
Standard models SMA

Frequency Range (GHz)	VSWR max.	Insertion loss (dB) max.	Isolation (dB) min.
DC – 6	1.3	0.3	70
6 – 12	1.4	0.4	60
12 – 18	1.5	0.5	60

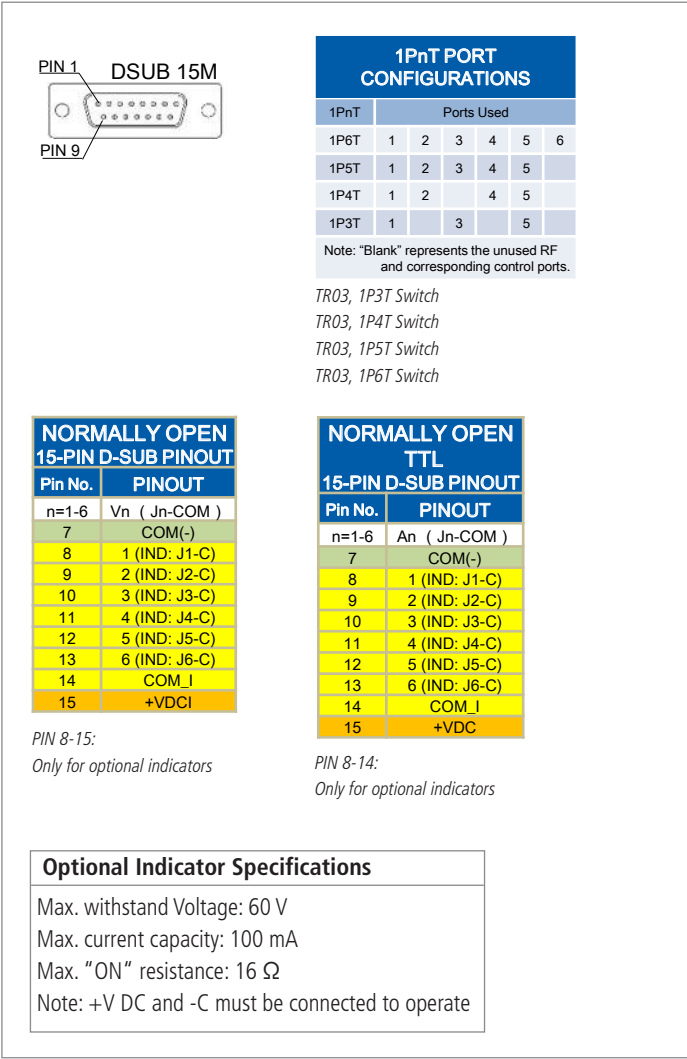
Standard models K

Frequency Range (GHz)	VSWR max.	Insertion loss (dB) max.	Isolation (dB) min.
DC – 6	1.3	0.3	70
6 – 12	1.4	0.4	60
12 – 18	1.5	0.5	60
18 – 26.5	1.7	0.7	55
26.5 – 32	1.9	0.8	50
32 – 40	2	1	50

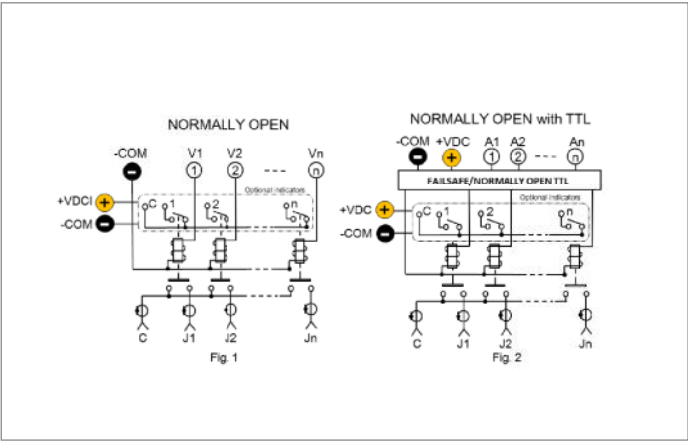
Dimensions



Pin-Assignment



Circuit Diagram

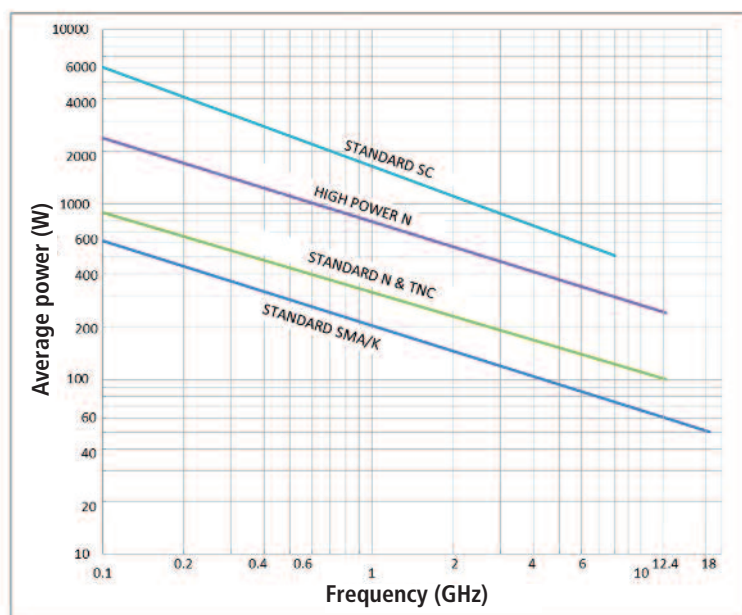


Germany
Telemeter Electronic GmbH
Joseph-Gaensler-Str. 10, 86609 Donauwörth
Phone +49 906 70693-0, Fax +49 906 70693-50
info@telemeter.de, www.telemeter.info

Switzerland
Telemeter Electronic GmbH
Romanshornestr. 117, 8280 Kreuzlingen
Phone +41 71 6992020, Fax +41 71 6992024
info@telemeter.ch, www.telemeter.info

Czech Republic
Telemeter Electronic s.r.o.
České Vrbné 2364, 37011 České Budějovice
Phone +420 38 5310637
info@telemeter.cz, www.telemeter.info

Power chart



VSWR	Derating Factor
1.5 : 1	0.96
2.0 : 1	0.88
2.5 : 1	0.84
3.0 : 1	0.75
3.5 : 1	0.70
4.0 : 1	0.64
4.5 : 1	0.60
5.0 : 1	0.56

This graph is based on the following conditions:

- Ambient temperature +20°C
- Sea level 0
- VSWR 1 : 1
- Cold switching

Ordering scheme

	Switchmodel	Function/ configuration	Coil- voltage	Connections	Frequency range	Actuator/Control	Special options
TR	XX-	X	XX	X	XX	X	-XX
TEleRel	01 = DPDT	F = Failsafe	12 Volt	C = SC female	01 = DC up to 1 GHz	0 = with overvoltage protection	C = positive common
TEleRel	02 = SPDT	L = Latching	18 Volt	K = 2.92 mm female	03 = DC up to 3 GHz	without TTL/self cutoff	D = Sub-D
TEleRel	03 = SP3T	N = Normally open	24 Volt	L = 2.4 mm female	04 = DC up to 4 GHz	1 = with TTL-driver	E = extended temperature range
TEleRel	04 = SP4T		28 Volt	N = N female	05 = DC up to 5 GHz	2 = self cutoff (only at Latching)	H = high performance
TEleRel	05 = SP5T			S = SMA female	12 = DC up to 12.4 GHz	3 = self cutoff & TTL	(5 mio. switching cycles)
TEleRel	06 = SP6T				16 = DC up to 16 GHz	(nur bei latching)	I = Indicators
TEleRel	07 = SP7T				18 = DC up to 18 GHz	4 = without overvoltage protection	L = low PIM
TEleRel	08 = SP8T				26 = DC up to 26.5 GHz	without TTL/self cutoff	M = moisture seal
TEleRel	09 = SP9T				40 = DC up to 40 GHz	5 = with binary decoder	N = without mounting
TEleRel	10 = SP10T						bracket at DPDT
TEleRel	11 = SP11T						P = high power
TEleRel	12 = SP12T						T = scheduling
TEleRel	13 = SP13T						V = V-design
TEleRel	14 = SP14T						Y = Y-design
TEleRel	15 = SP15T						
TEleRel	16 = SP16T						
TEleRel	17 = SP17T						
TEleRel	18 = SP18T						
***Please note that some options are not available depending on the modell							

***Please note that some options are not available depending on the model