

Fail-safe/Latching

❖ Features

- Low VSWR
- Low Loss
- High Isolation
- SMA(f) connectors
- Bracket (Optional)

❖ RF Characteristics

Frequency	Ins. Loss	Isolation	VSWR	Average Power
GHz	dB	dB		W
DC~6	0.3	70	1.3	80
6~12	0.4	60	1.4	60
12~18	0.5	55	1.5	50

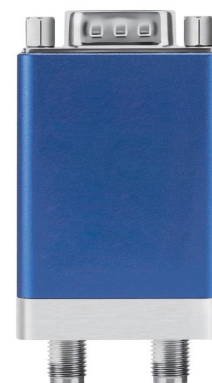
Operating Voltage/Coil Current

Operating Voltage(V)		12	24	28
Current (mA)	Fail-safe	350	200	180
	Latching	400	200	185

TTL	Low(V)	High	
	0~0.3	3~5V	1.4mA

Indicator Rating	V(max)	mA(max)	Ω(max)
	50	100	15

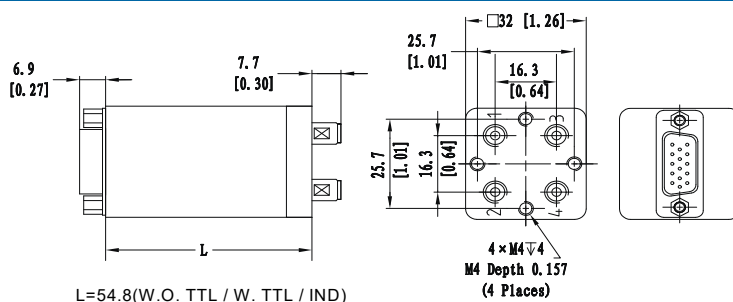
* +Vdc and GND must be connected to operate



❖ Specifications

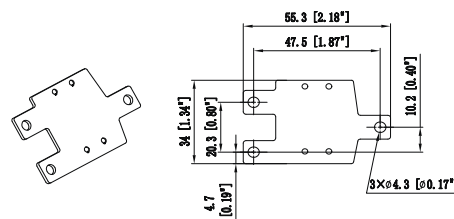
Frequency Range	DC-18 GHz
Impedance	50 Ohms
Switching Sequence	Break Before Make
Switching Time	15mS max
Operating Life	2 million cycles
Shock, Non-operating	50G, 1/2 Sine, 11ms
Vibration, Operating	20-2000Hz, 10G RMS
RF Interface	SMA female
Control Connector	D-SUB 15Pin Male
Storage Temperature	-55°C~+85°C
Operating Temperature	-25°C~+65°C (Standard)
	-45°C~+85°C (Extended Temp. 1)
	-55°C~+85°C (Extended Temp. 2)
Weight	100g

❖ Outline Drawing[mm[inch]]



L=54.8(W.O. TTL / W. TTL / IND)

◆ Mounting Bracket



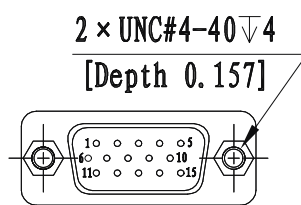
❖ Ordering Information

TCS22 - S L 6 12 - 1 0 S 1

Connector	Actuator	Frequency	Voltage	Spacial Options	Temperature	Installation	Actuator Terminals
S: SMA(f)	F: Fail-safe L: Latching	6: DC~6GHz 8: DC~8GHz 12:DC~12.4GHz 18: DC~18GHz	5: 5V 12: 12V 24: 24V 28: 28V	0: Ground Plane 1: TTL Driver 2: Positive Common 3: Self Cut-off 4: Ground Plane + IND 5: TTL Driver + IND 6: Positive Common + IND	0: Standard 1: -45~+85°C 2: -55~+85°C	S: Standard B: Mounting Bracket	1: D-SUB 15PIN Male

(IND: Indicators)

Please feel free to contact us for more information regarding additional options and custom configurations



DB15 male

Truth Table

FAILSAFE W/O TTL

D-SUB 15Pin Male	Pin No.	1	2	3~11	12	13	14	15
	Description	GND	V	N/A	VDC	IND 1	IND 2	IND COM
RF Path	OFF/RF 1-2, 3-4	-	RF 1-3, 2-4	-	-	RF 1-2, 3-4	RF 1-3, 2-4	-

FAILSAFE W/ TTL

D-SUB 15Pin Male	Pin No.	1	2	3	4~12	13	14	15
	Description	VDC	GND	TTL	N/A	IND 1	IND 2	IND COM
RF Path	OFF/RF 1-2, 3-4	-	-	RF 1-3, 2-4	-	RF 1-2, 3-4	RF 1-3, 2-4	-

LATCHING W/O TTL

D-SUB 15Pin Male	Pin No.	1	2	3	4~11	12	13	14	15
	Description	V1	V2	GND	N/A	VDC	IND 1	IND 2	IND COM
RF Path	-	RF 1-2, 3-4	RF 1-3, 2-4	-	-	-	RF1-2,3-4	RF1-3,2-4	-

LATCHING W/ TTL

D-SUB 15Pin Male	Pin No.	1	2	3	4	5~12	13	14	15
	Description	VDC	GND	TTL	TTL	N/A	IND 1	IND 2	IND COM
RF Path	-			RF 1-2, 3-4	RF 1-3, 2-4	-	RF1-2,3-4	RF1-3,2-4	-