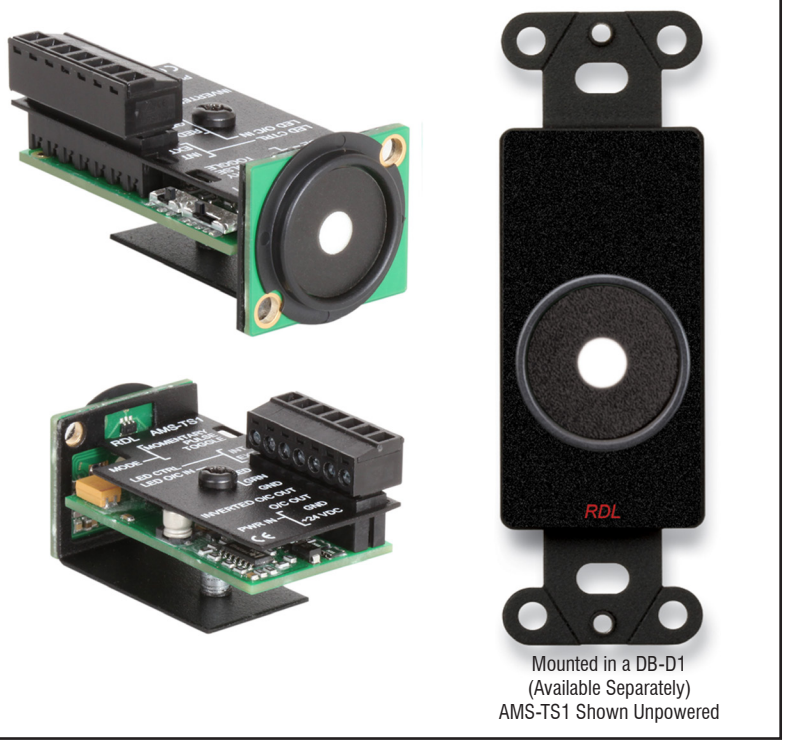
RDL®
Radio Design Labs

SPECIALISTS IN PRACTICAL PRECISION ENGINEERING™

ACCESSORIES
Model AMS-TS1
Illuminated Touch-Activated Pushbutton

- Bicolor Illuminated Capacitive Touch Switch
- Activated by Finger Contact of a User
- Toggle, Momentary or Pulse Mode Operation
- Integral Controller with Open Collector Outputs
- Functions Without an External Controller
- Indicator Color Controlled by Internal Circuitry or Remote Equipment
- Green Indicator Illuminates when Output is Active
- Red Indicator Illuminates when Output is Inactive
- Mounts in D-Style Standard Cutouts
- Mounts in all RDL AMS Mounting Frames
- Mounts in RDL Decora-Style Wall Plates
- Bezel Provides Professional Aesthetic Appearance



Mounted in a DB-D1
(Available Separately)
AMS-TS1 Shown Unpowered

The AMS SYSTEM is a versatile product group from Radio Design Labs. The unique design allows the associated AMS accessories to mount into any standard RDL RACK-UP® or HALF-RACK mounting opening as well as other RDL mounting accessories and enclosures. These optionally available RDL rack mount, wall mount and countertop enclosures make the AMS SYSTEM accessories useful in a wide variety of installations.

APPLICATION: The AMS-TS1 is a touch activated electronic button with integral controller. It operates in one of three modes: Toggle (touch on, touch off), Momentary (active while touched, otherwise inactive), or Pulse (125 mS active pulse upon each touch). By default, the center of the button illuminates green when the output is active, red when the output is inactive.

The button mode and internal/external indicator source are set by the installer. Two open collector outputs are provided. One is pulled to ground when the module output is active. The other is pulled to ground when the module output is inactive. The red and green indicators may be controlled by open collectors (or switches) on external RDL modules or other equipment.

The AMS-TS1 operates from ground-referenced 24 Vdc. The module is designed to mount behind the front panel of industry products that provide D-style cutouts.

.

RDL®
Radio Design Labs

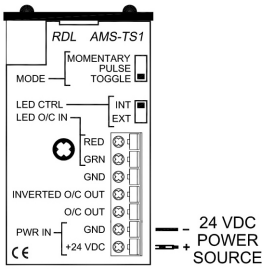
SPECIALISTS IN PRACTICAL PRECISION ENGINEERING™

ACCESSORIES
Model AMS-TS1
Illuminated Touch-Activated Pushbutton

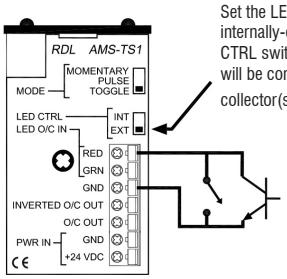
Installation/Operation

Declaration of Conformity available from rdlnet.com.
Sole EMC specifications provided on product package.
Specifications are subject to change without notice.

POWERING



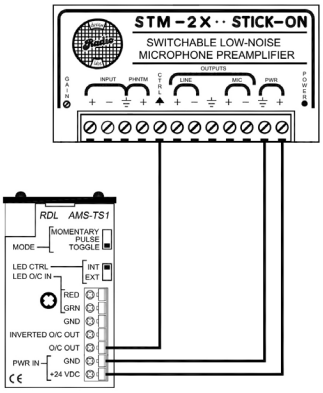
LED CONTROL



Set the LED CTRL switch to INT (internal) for internally-controlled LED indication. Set the LED CTRL switch to EXT (external) if the indicators will be controlled by external equipment open-collector(s).

For external LED control, connect a switch or an open-collector from the LED terminal to ground to activate the desired LED. Trigger examples include DSP or other OEM open-collector outputs, and the control outputs of RDL modules.

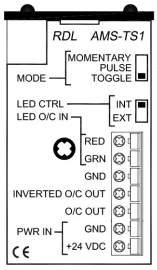
MIC SWITCHING EXAMPLE



Connect the O/C OUT terminal to the control terminal on the mic preamp. The mic will be active when the AMS-TS1 output is active. If the LED CTRL is set to internal, the touch button will glow green when the mic is on.

Note: To connect as a cough button, set the MODE to MOMENTARY and connect the INVERTED O/C OUT to the control terminal on the mic preamp. When the button is touched, the mic will be muted.

MODE



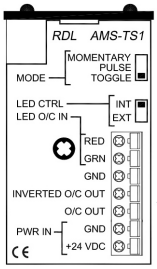
Set the slide switch to the desired mode:

MOMENTARY - Output active only while button is being touched

PULSE - For each button touch, output is active for a duration of 125 mS (nominal), then is inactive (until button is touched again)

TOGGLE - Output switches active when button is touched and remains active (until button is touched again). The next time the button is touched, the output switches inactive and remains inactive (until button is touched again)

OUTPUTS



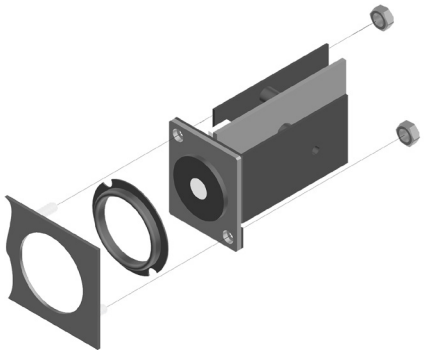
Connect to the desired output(s):

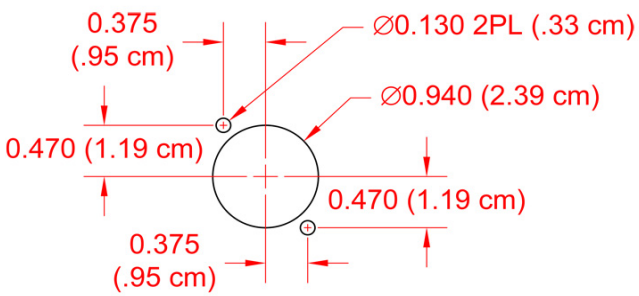
O/C OUT - This terminal is pulled to ground when the module is active (Green LED on front panel when LEDs controlled internally)

INVERTED O/C OUT - This terminal is pulled to ground when the module is inactive (Red LED on front panel when LEDs controlled internally)

STEP #1
INSTALL THE BEZEL INTO THE MOUNTING HOLE AND POSITION THE METAL PLATE OVER THE PEM STUDS.

STEP #2
SECURE THE AMS-TS1 JACK ONTO THE PEM STUDS WITH THE TWO NUTS INCLUDED WITH THE AMS OR DECORA MOUNTING PLATE.





Front View
Standard D-Style Cutout Dimensions

TYPICAL PERFORMANCE

Control Output:	SLAVE terminal open-collector @ 25 mA (2, normal and inverted)
Front-panel touch button modes:	Toggle, Momentary or Pulse (switch-selectable)
Touch button illumination control:	Internal or External (switch-selectable)
Touch button illumination colors (Internal control):	Red (output inactive) or Green (output active)
Touch button illumination colors (External control):	White (no selection), Red or Green
Touch button illumination external control:	1 mA pulled to ground; switching threshold voltage = 2.5 Vdc
Toggle mode output timing sequence:	Button touch latches output active; Next button touch latches output inactive
Momentary mode output timing sequence:	Output is active while button is continuously touched, then returns to inactive when button touch released
Pulse mode output timing sequence:	Button touch sets output active for 125 mS (nominal) then output returns to inactive
Ambient Operating Environment:	0° C to 50° C
Power Requirement:	Ground-referenced, 24 Vdc @ 30 mA
Mounting:	AMS mounts; D-Style cutouts
Dimensions:	Height: 1.23 in. 3.12 cm; Width: 1.24 in. 3.14 cm; Depth: 2.3 in. 5.84 cm
Package Type:	Cardboard Box
Package Dimensions:	2 x 2 x 4 in.
Shipping Weight:	0.13 lbs.
WEEE weight:	0.09 lbs.
Tariff code:	8517.62.0050

Radio Design Labs Technical Support Centers
U.S.A. (800) 933-1780, (928) 778-3554; Fax: (928) 778-3506
Europe [NH Amsterdam] (++31) 20-6238 983; Fax: (++31) 20-6225-287