

6.5.2 MTL4549/MTL4549C/MTL4549Y - Isolating Driver

Two channel, 4/20mA, HART® for valve positioners with line-fault detection

The MTL4549 accepts 4/20mA floating signals from safe-area controllers to drive 2 current/pressure converters (or any other load up to 800Ω) in a hazardous area. For HART valve positioners, the module also permits bi-directional transmission of digital communication signals so that the device can be interrogated either from the operator station or by a hand-held communicator. Process controllers with a readback facility can detect open or short circuits in the field wiring: if these occur, the current taken into the terminals drops to a preset level. The MTL4549C and MTL4549Y are identical to the MTL4549 except that they provide open circuit detection only (no short-circuit detection).

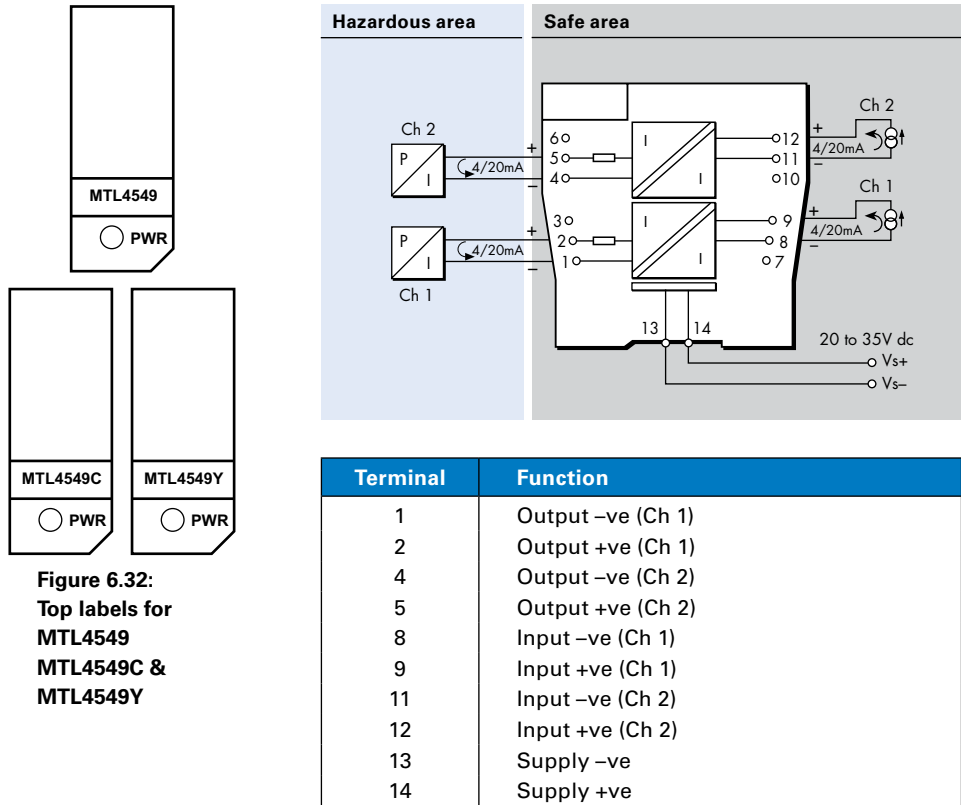


Figure 6.32:
Top labels for
MTL4549
MTL4549C &
MTL4549Y

Input Characteristics

Field wiring state	MTL4549	MTL4549C	MTL4549Y
Normal	< 6.0V	< 6.0V	< 6.0V
Open-circuit	< 0.9mA	< 0.9mA	< 0.5mA
Short-circuit	< 0.9mA	N.A.	N.A.