

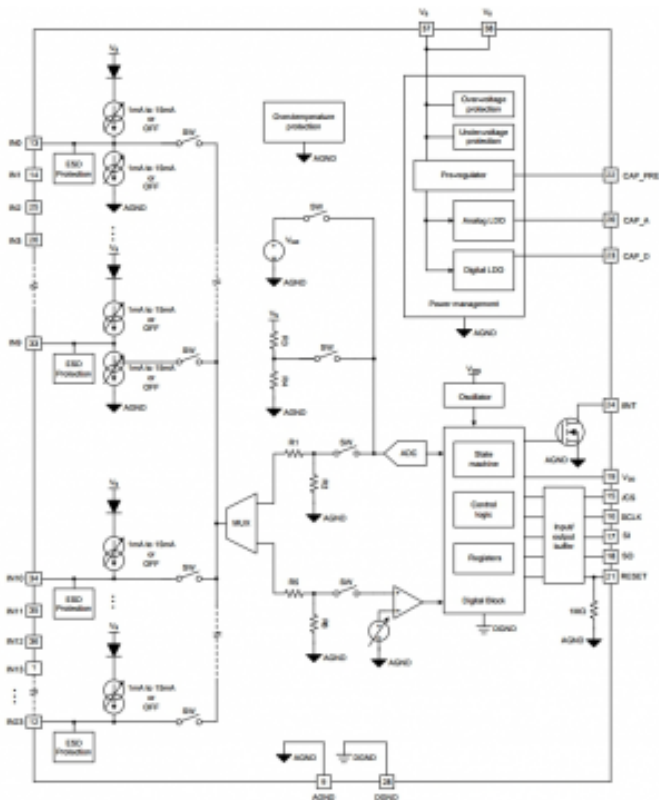
TIC12400 24-Input Multiple Switch Detection Interface (MSDI) Device With Integrated ADC and Adjustable Wetting Current.



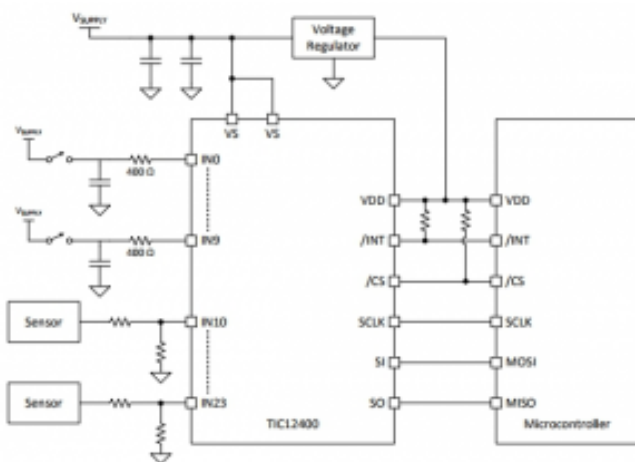
## Vlastnosti

- Operates with Supply Voltage ( $V_S$ ) from 6.5 V to 35 V with Over-voltage and Under-voltage Warning
- Monitors up to 24 Direct Switch Inputs with 10 Inputs Configurable to Monitor Switches Connected to Either Ground or Supply
- Switch Input Withstands 40 V and Reverse Supply Condition Down to -24 V
- 6 Configurable Wetting Current Settings: (0 mA, 1 mA, 2 mA, 5 mA, 10 mA, and 15 mA)
- Integrated 10-bit ADC for Multi-Position Analog Switch Monitoring
- Integrated Comparator with 4 Programmable Threshold for Input Monitoring
- Ultra-low Operating Current in Polling Mode: 68  $\mu$ A Typical ( $t_{POLL} = 64$  ms,  $t_{POLL\_ACT} = 128$   $\mu$ s, All 24 Inputs Active, Comparator Mode, All Switches Open)
- Interfaces Directly to MCU Using 3.3 V/5 V Serial Peripheral Interface (SPI) Protocol
- Interrupt Generation to Support Wake-Up Operation on All Inputs
- Integrated Supply and Temperature Sensing
- $\pm 8$  kV Contact Discharge ESD Protection on Input Pins per IEC 61000-4-2 With Appropriate External Components
- 38-Pin TSSOP Package

## Blokové zapojenie



### Zjednodušené aplikačné zapojenie



### Cena

U [Farnella](#) od 2.56 Eur za 10 ks

### Odkazy

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[Datasheet](#)

### Distribúcia

[vid'. Adresár](#)