

MTL5514 MTL Switch Proximity Detector Interface 10ms

Our Product Introduction

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Basic Information

- Place of Origin: UK/China
- Brand Name: MTL
- Certification: HART
- Model Number: MTL5514
- Minimum Order Quantity: 1
- Price: Negotiate
- Packaging Details: carton
- Delivery Time: stock
- Payment Terms: T/T
- Supply Ability: 1000pcs per week



Product Specification

- Manufacturer: MTL Instruments
- Product No: MTL5514
- Number Of Channels: One
- Response Time: 10ms Maximum
- Warranty: 1 Year
- Maximum Current Consumption: 25mA At 24V Dc
- Highlight: **MTL5514 MTL Switch, MTL5514 Proximity Detector, Proximity Detector 10ms**



More Images



Product Description

MTL5514 MTL Switch/Proximity Detector Interface Response time 10ms maximum

The MTLx514 enables a safe–area load to be controlled, through a relay, by a proximity detector or switch located in a hazardous area. Line faults are signalled through a separate relay and indicated on the top of the module. Switches are provided to select phase reversal and to enable the line fault detection

Number of channels

One

Location of switch

Zone 0, IIC, T6 hazardous area
Div.1, Group A, hazardous location

Location of proximity detector

Zone 0, IIC, T4–6 hazardous area, if suitably certified
Div.1, Group A, hazardous location

Hazardous–area inputs

Inputs conforming to BS EN60947–5–6:2001 standards for proximity detectors (NAMUR)

Voltage applied to sensor

7 to 9V dc from $1k\Omega \pm 10\%$

Input/output characteristics

Normal phase

Outputs closed if input $> 2.1mA$ ($< 2k\Omega$ in input circuit)

Outputs open if input $< 1.2mA$ ($> 10k\Omega$ in input circuit)

Hysteresis: $200\mu A$ (650Ω) nominal

Line fault detection (LFD) (when selected)

User-selectable via switches on the side of the unit. Line faults are indicated by an LED. Line fault relay is energised and channel output relay de-energised if input line-fault detected

Open-circuit alarm on if $I_{in} < 50\mu A$

Open-circuit alarm off if $I_{in} > 250\mu A$

Short-circuit alarm on if $R_{in} < 100\Omega$

Short-circuit alarm off if $R_{in} > 360\Omega$

Note: Resistors must be fitted when using the LFD facility with a contact input

500Ω to $1k\Omega$ in series with switch

$20k\Omega$ to $25k\Omega$ in parallel with switch

Safe-area output

Channel: Single pole relay with changeover contacts

LFD: Single pole relay with changeover contacts

Note: reactive loads must be adequately suppressed



HCU16	MTL5521	MTL4575
HCU3700	MTL5522	MTL4646Y
HM64RIB20-1.0	MTL5531	MTL4850
HM64RIB20-1.5	MTL5532	MTL4851
HMM64	MTL5541	MTL4852
HMRIB16-1.0	MTL5541S	MTL5018
HMS64	MTL5544	MTL5032
HTP-SC32	MTL5544D	MTL5042
MTL4044D	MTL5546	MTL5044
MTL4511	MTL5546Y	MTL5049
MTL4516	MTL5561	MTL5511
MTL4516C	MTL5573	MTL5514D
MTL4521	MTL5575	MTL5516
MTL4541	MTL5582B	MTL5516C
MTL4541	MTL7728+	MTL7787P+
MTL4544	MTL7756AC	MTLCPS16
MTL4544D	MTL7760AC	NJ5-18GK-N
MTL4546Y	MTL7761PAC	SD150X
MTL4549Y	MTL7765AC	SD32
MTL4573	MTL7787+	SD32X
TP48-4-N-NDI	TP48-3-N-NDI	SDRTD
TP48-N-NDI	TP48-4-I-NDI	SLP32D



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