

# **Gard** Datasheet TR Remote Start Electronic Time Delay Unit

Certifications

Category

Functional safety data

CE marked for all

B10d

DC

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applicable directives

Cat. 4, PLe (EN/ISO 13849-1) and SIL3 (EN/IEC 62061)

5.000.000

monitoring)

High 99% (with correct

### » Remote Start Electronic Time Delay Unit TR Remote Start Electronic Time Delay Unit Safety Data Standards EN60947-3:2009 A solid state Time Delay unit for use where machines do not come to an immediate ISO EN14119:2013 EN13849-1:2008 EN13849-2:2012 EN62061:2005 stop. The gate access key is held captive in the unit until the desired condition of the



machine or process has been achieved. The time delay is internally programmable with range from 60 to 600 seconds (10 minutes). As part of an interlock system, the units are used to control keys giving access to enclosed areas or machines where hazards may be present, until a safe condition has been achieved.

The timer is initiated by an external supply, normally derived from an auxiliary contact on an isolator. This would ensure that the time delay cannot start before the machine is switched off. This unit simply automates the delay start process and removes the need to transfer a key. It does however require additional wiring. The TR also includes two safety circuits that should be wired to the machine control system to ensure accidental start-up is avoided.

The TR unit uses a timer relay that provides a Delay-on energisation in accordance with VDE 0113-1, 11/98, EN 60204-1, 12/97, EN 1088, 12/97 and IEC 204-1, 11/98.

 Self monitoring time circuits · Timed release of locked gate access key

## mGard range

mGard is the ultimate range of robust mechanical trapped key products. Trapped key technology offers purely mechanical access locks (removing the need for expensive wiring). mGard offers an extensive variety of modular interlocking solutions.

#### **Technical Specification Operating Voltage** 24V dc, 110V ac, 230V ac Power Consumption Value 24V dc = 16W 110V ac = 63VA 240V ac = 132VA Time Delay 60s - 600s Enclosure Stainless Steel sealed to IP67 Lock Meachanism Die-cast zinc body with stainless operating mechanism Voltage Tolerance (all voltages) 85...110% Residual Ripple on AC units DC units: 10% Delay-on De-energisation Approx. 40ms, Recovery Time 80ms. Time Ranges are internally 60s, 80s, 100s, 140s, 180s, 240s, 300s, selectable (24V dc) 360s, 420s, 480s, 540s & 600s Time Ranges are internally 30s, 40s, 50s, 70s, 90s, 120s selectable (110V ac / 230V ac) 150s, 180s, 210s, 240s, 270s & 300s. Switch Contact Rating: 300V - 20A Minimum Operating Current 5mA at 20v

# **Article Codes**

Part Nº Type Enclosed (IP67) TR N° of Locks

Lock Type

1

### Key and lock types must be specified seperatly

Solenoid Voltage	Part N°
24V DC	024
110V AC	110
230V AC	230

## Wiring Diagram





