

©Gard Datasheet **FS** Electronic Time Delay Switch Unit

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	Electronic Time Delay Switch Unit	Safety Data		
	A solid state Time Delay unit for use where machines do not come to an immediate 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 time delay is initiated by turning the integrated isolation switch. This will simultaneously shut off the machine power.	Standards	EN60947-3:2009 ISO EN14119:2013 EN13849-1:2008 EN13849-2:2012 EN62061:2005	
		Certifications	CE marked for all applicable directives Cat. 4, PLe (EN/ISO 13849-1) and	
		Calegory	SIL3 (EN/IEC 62061)	
			B10d	5,000,000
	The TS 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.	Functional safety data	DC	High 99% (with correct monitoring)
	 Self monitoring time circuits Timed release of locked gate access key Machine 3 Phase supply isolation 		<u> </u>	
nGard 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	Polycarbonate sealed to IP65		
Lock Meachanism	Die-cast zinc body with stainless operating		
	mechanism		
Voltage Tolerance (all voltages)	85110% 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, 150s		
selectable (110V ac / 230V ac)	180s, 210s, 240s, 270s & 300s.		
Switch Contact Rating:	See tables below		
Minimum Operating Current	5mA at 20v		
Switch ENG0047 / AC 15			

Article Codes	
Туре	Part N°
Enclosed (IP65)	TS
N° of Locks	
1	-
Lock Type	
Key and lock types must be specified seperatly	
Solenoid Voltage	Part Nº
24V DC	024
110V AC	110
230V AC	230
230V AC	230

Wiring Diagram



5 HP



Dimensional Drawing

277V

