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22.5 mm DIN rail mounting TU2R4 Part number 88865300



- Multi-function or mono-function
- Multi-range
- Multi-voltage
- Screw or spring terminals
- LED status indicator
- Option of connecting an external power supply to the control input
- 3-wire sensor control option

Part numbers									
	Type Functions	Timing	Output	Nominal rating	Connections	Supply voltage			
88 865 3	TU2R4 A - At - B - C - H - Ht - Di - D - Ac - Bw	0,1s→100h	2 timed relays changeover relays	8 A	Screw terminals	12 V AC / DC			

Specifications		
Timing		
Timing ranges (7 ranges)	1 s - 10 s - 1 min - 10 min - 1 h - 10 h - 100 h TK2R1 : 0.6s - 2.5s - 20s - 160 s	
Repetition accuracy with constant parameters	± 0.5 % (IEC/EN 1812-1)	
Drift Temperature	± 0.05 % / °C	
Drift Voltage	± 0.2 % / V	
Display accuracy according to IEC/EN 61812-1	± 10 % / 25 °C	
Minimum pulse duration typically (relay version)	30 ms	
Minimum pulse duration typically (solid state version)	50 ms	
Minimum pulse duration typically (relay version under oad)	100 ms	
Maximum reset time by de-energisation typically (relay version)	100 ms	
Maximum reset time by de-energisation typically (solid state version)	350 ms	
mmunity from micro power cuts : typical	> 10 ms	
Supply	*** TRADUCTION MANQUANTE ***	
Multi-voltage power supply	Depending on version	
Frequency (Hz)	50/60	
Operating range	85 to 110 % Un (85 to 120 % Un for 12V AC/DC)	
Operating factor	100 %	
Max. absorbed power	0,6 W 24 V AC/DC 1,5 W 230 V AC 32 VA 230 V AC	
Output specification		
1 or 2 changeover relays, AgNi (cadmium-free)	2000 VA/80 W	
Rated power	2000 VA/80 W	
Maximum breaking current	8 A AC 8A DC	
Minimum breaking current	10 mA / 5 V DC	
Voltage breaking capacity	250 V AC/ DC	
Electrical life (operations)	10 ⁵ operations 8 A 250 V resistive	
Mechanical life (operations)	5x10 ⁶	
Breakdown voltage acc. to IEC/EN 61812-1	2.5 kV /1 min / 1 mA / 50 Hz	
Impulse voltage acc. to IEC/EN 60664-1, IEC/EN 61812-1	2.5 kV, wave 1.2 / 50 µs	
	5 kV, wave 1.27 50 µs	
Solid state output		
Rated power	0,7 A AC/DC 20 °C (0,5 A UL)	
Derating	5 mA / °C	
Maximum admissible current	20 A ≤ 10 ms	
Minimum breaking current	10 mA	
Leakage current	<5 mA	
Voltage breaking capacity	250 V AC/ DC	
Maximum voltage drop at terminals	3 wire 4V - 2 wire 8V	
Electrical life (operations)	10 ⁸	
Mechanical life (operations)	10 ⁸	
Breakdown voltage acc. to IEC/EN 60664-1, IEC/EN 60255-5	2.5 kV to 1 mA / 1 min	
Input type	Volt-free contact	

3-wire PNP output control option residual voltage : 0.4V whatever the timer power supply

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Conformity to standards	0,02,201.			
IECCEN 91000-6-1 IECCEN 91000-6-2 IECCEN 91000-6-3 IECCEN 91000-6-3 IECCEN 91000-6-3 IECCEN 91000-6-4 IECCEN 91000-6-3 IECCEN 91000-6-4 IECCEN 91000-6-6 IECCEN 9100	General characteristics			
Temperature limits use (°C)	Conformity to standards	IEC/EN 61000-6-1 IEC/EN 61000-6-2 IEC/EN 61000-6-3		
Intersalization stategory (acc. to IEC/EN 80684-1) Crespage distance and derannoe acc. to IEC/EN 60684-1 Profeedion (IEC/EN 80628) Profeedion (IEC/EN 80688-2-6) Relative humidity no condensation acc. to IEC/EN 80068-2-8 Relative humidity no condensation acc. to IEC/EN 80068-2-8 Immunity to related acc. to IEC/EN 81000-4-2 Immunity to related acc. to IEC/EN 81000-4-2 Immunity to shock waves on power supply acc. to IEC/EN 81000-4-4 Immunity to shock waves on power supply acc. to IEC/EN 81000-4-5 Immunity to voltage dips and breaks acc. to IEC/EN 81000-4-5 Immunity to voltage dips and breaks acc. to IEC/EN 81000-4-6 Immunity to voltage dips and breaks acc. to IEC/EN 81000-4-6 Immunity to voltage dips and breaks acc. to IEC/EN 81000-4-5 Relative humidity to voltage dips and breaks acc. to IEC/EN 81000-4-5 Septing terminals, 2 terminals per connection point-flexible wire Prizing - Symmetrical DIN rationals per connection point-flexible wire Prizing - Symmetrical DIN rationals per connection point-flexible wire Prizing - Symmetrical DIN rationals per connection point-flexible wire Prizing - Symmetrical DIN rationals per connection point-flexible wire Prizing - Symmetrical DIN rationals per connection point-flexible wire Prizing - Symmetrical DIN rationals per connection point-flexible wire Prizing - Symmetrical DIN rationals per connection point-flexible wire Prizing - Symmetrical DIN rationals per connection point-flexible wire Prizing - Symmetrical DIN rationals per connection point-flexible wire Prizing - Symmetrical DIN rationals per connection point-flexible wire Prizing - Symmetrical DIN rationals per connection point-flexible wire Prizing - Symmetrical DIN rationals per connection point-flexible wire Prizing - Symmetrical DIN rationals per connection point-flexible wire	Certifications	CE, UL, cUL, CSA, GL		
Installation category (acc. to IEC/EN 6064-1) Creapage distance and clearance acc. to IEC/EN 60664-1 Protection (IEC/EN 60529) IP 40 Degree of protection acc. to IEC/EN 60529 Front face (except T&E/R1) Vibration resistance acc. to IEC/EN 60529-6 Relative humidity no condensation acc. to IEC/EN 60068-2-6 Relative humidity to repid transient bursts acc. to IEC/EN 60064-2 Remnunity to shock waves on power supply acc. to IEC/EN 61000-4-4 Immunity to radio frequency in common mode acc. to IEC/EN 61000-4-6 Immunity to voltage dips and breaks acc. to IEC/EN 61000-4 Inmuni	Temperature limits use (°C)	-20 		
votage grategory Votage rigo distance and clearance acc. to IEC/EN 60664-1 Protection (IEC/EN 60529)	Temperature limits stored (°C)	-30 ->+60		
Protection (IEC/EN 60529) IP 20 IP 40 Degree of protection acc. to IEC/EN 60529 Front face (except Tk2R1) IP 50 Vibration resistance acc. to IEC/EN 60588-2-6 Relative humidity no condensation acc. to IEC/EN 60588-2-30 Selectromagnetic compatibility - Immunity to electrostatic discharges acc to IEC/EN 61000-4-2 Immunity to radiated, radio-frequency, electromagnetic field acc. IEC/EN 61000-4-2 Immunity to rapid transient bursts acc. to IEC/EN 61000-4-4 Immunity to rapid frequency in common mode acc. to IEC/EN 61000-4-5 Immunity to radio frequency in common mode acc. to IEC/EN 61000-4-5 Immunity to radio frequency in common mode acc. to IEC/EN 61000-4-5 Immunity to value display and breaks acc. to IEC/EN 61000-4-5 Immunity to value display and breaks acc. to IEC/EN 61000-4-5 Immunity to value display and breaks acc. to IEC/EN 61000-4-5 Immunity to value display and breaks acc. to IEC/EN 61000-4-5 Immunity to value display and breaks acc. to IEC/EN 61000-4-5 Immunity to value display and breaks acc. to IEC/EN 61000-4-6 Immunity to value display and breaks acc. to IEC/EN 61000-4-6 Immunity to value display and breaks acc. to IEC/EN 61000-4-6 Immunity to value display and breaks acc. to IEC/EN 61000-4-6 Immunity to value display and breaks acc. to IEC/EN 61000-4-6 Immunity to value display and breaks acc. to IEC/EN 61000-4-6 Immunity to value display and breaks acc. to IEC/EN 61000-4-6 Immunity to value display and breaks acc. to IEC/EN 61000-4-5 Immunity to value display and breaks acc. to IEC/EN 61000-4-5 Immunity to value display and breaks acc. to IEC/EN 61000-4-5 Immunity to value display and breaks acc. to IEC/EN 61000-4-5 Immunity to value display and breaks acc. to IEC/EN 61000-4-5 Immunity to radio frequency in common mode acc. to IEC/EN 61000-4-5 Immunity to radio frequency in common mode acc. to IEC/EN 61000-4-5 Immunity to radio frequency in common mode acc. to IEC/EN 61000-4-5 Immunity to radio frequency in common mode acc. to IEC/EN 61000-4-5 Immunity to radio frequency		Voltage surge category		
P 40	Creepage distance and clearance acc. to IEC/EN 60664-1	4 kV / 3		
Degree of protection acc. to IEC/EN 60529 Front face (except Tr.2R1) IP 50 Vibration resistance acc. to IEC/EN 60088-2-6 Relative humidity no condensation acc. to IEC/EN 60088-2-30 Sa sans condensation Electromagnetic compatibity - Immunity to electrostatic discharges acc to IEC/EN 61000-4-2 Immunity to radiated, radio-frequency, electromagnetic field acc. IEC/EN 61000-4-3 Immunity to rapid transient bursts acc. to IEC/EN 61000-4-4 Immunity to rapid transient bursts acc. to IEC/EN 61000-4-5 Immunity to radio frequency in common mode acc. to IEC/EN 61000-4-5 Immunity to valide frequency in common mode acc. to IEC/EN 61000-4-5 Immunity to valide frequency in common mode acc. to IEC/EN 61000-4-5 Immunity to voltage dips and breaks acc. to IEC/EN 61000-30 Sa sans condensation Level III (Air 8 KV / Contact 6 KV) Level III (Air 8 KV / Contac	Protection (IEC/EN 60529)	IP 20		
Pout		IP 40		
acc. to IEC/EN 60068-2-6 Relative humidity no condensation acc. to IEC/EN 60085- 2-30 Since the compagnetic compatibility - Immunity to electrostatic discharges acc to IEC/EN 61000-4-2 Immunity to radiated, radio-frequency, electromagnetic field acc. IEC/EN 61000-4-3 Immunity to radiated, radio-frequency, electromagnetic field acc. IEC/EN 61000-4-3 Immunity to radiot transient bursts acc. to IEC/EN 61000-4-7 Immunity to radiot frequency in common mode acc. to IEC/EN 61000-4-5 Immunity to radio frequency in common mode acc. to IEC/EN 61000-4-5 Immunity to value dips and breaks acc. to IEC/EN 61000- 4-11 Immunity to voltage dips and breaks acc. to IEC/EN 61000- 4-11 Mains-borne and radiated emissions acc. to EN 55022 (CISSR22), ENS5011 (CISPR11) Fixing: Symmetrical DIN rail Connection capacity - without ferrule 2 x 2,5 mm² Connection capacity - without ferrule 2 x 1,5 mm² Spring terminals, 2 terminals per connection point - rigid wire Phousing material Weight: casing 17,5 mm A = 0,35 mm Square Accordance 1 a = 0,35 mm 4 contact on the KV/ Level III (Air 8 KV / Contact 6 KV) Level III (Air 8 KV / Contact 6 KV) Level III (OW/m (80 M Hz to 1 G Hz) Level III (10V/m (80 M Hz to 1 G		IP 50		
Relative humidity no condensation acc. to IEC/EN 60068- 2-30 Electromagnetic compatibility - Immunity to electrostatic discharges acc to IEC/EN 61000-4-2 Immunity to radiated, radio-frequency, electromagnetic field acc. IEC/EN 61000-4-3 Immunity to rapid transient bursts acc. to IEC/EN 61000-4-5 Immunity to rapid transient bursts acc. to IEC/EN 61000-4-5 Immunity to radio frequency in common mode acc. to IEC/EN 61000-4-5 Immunity to radio frequency in common mode acc. to IEC/EN 61000-4-5 Immunity to voltage dips and breaks acc. to IEC/EN 61000- 4-11 Immunity to voltage dips and breaks acc. to IEC/EN 61000- 4-11 Mains-borne and radiated emissions acc. to EN 55022 (CISPR22), EN55011 (CISPR11) Fixing : Symmetrical DIN rail Connection capacity - with ferrule 2 x 2,5 mm² Spring terminals, 2 terminals per connection point - flexible wire Spring terminals, 2 terminals per connection point - rigid wire Self-extinguishing Weight: casing 17,5 mm Level III (Air 8 KV / Contact 6 KV) Level III (Air 8 KV / Contact 6 KV) Level III (Air 8 KV / Contact 6 KV) Level III (Air 8 KV / Contact 6 KV) Level III (Air 8 KV / Contact 6 KV) Level III (10 Km b to 1 G Hz) Level III (10 Km b to 1 G	Vibration resistance	f = 10 • 55 Hz		
Electromagnetic compatibility - Immunity to electrostatic discharges acc to IEC/EN 61000-4-2 Immunity to radiated, radio-frequency, electromagnetic field acc. IEC/EN 61000-4-3 Immunity to rapid transient bursts acc. to IEC/EN 61000-4-4 Immunity to shock waves on power supply acc. to IEC/EN 61000-4-5 Immunity to radio frequency in common mode acc. to IEC/EN 61000-4-5 Immunity to vadio frequency in common mode acc. to IEC/EN 61000-4-6 Immunity to voltage dips and breaks acc. to IEC/EN 61000-4-1 Immunity to voltage dips and breaks acc. to IEC/EN 61000-4-1 Immunity to voltage dips and breaks acc. to IEC/EN 61000-4-1 Immunity to voltage dips and breaks acc. to IEC/EN 61000-6 Immunity in voltage dips and breaks acc. to IEC/EN 61000-6 Immunity in voltage dips and breaks acc. to IEC/EN 61000-6 Immunity to voltage dips and breaks acc. to IEC/EN 61000-6 Immunity to voltage dips and breaks acc. to IEC/EN 61000-6 Immunity in voltage dips and breaks acc. to IEC/EN 61000-6 Immunity in voltage dips and breaks acc. to IEC/EN 61000-6 Immunity to voltage dips and breaks acc. to IEC/EN 61000-6 Immunity to voltage dips and breaks acc. to IEC/EN 61000-6 Immunity to voltage dips and breaks acc. to IEC/EN 61000-6 Immunity to voltage dips and breaks acc. to IEC/EN 61000-6 Immunity to voltage dips and breaks acc. to IEC/EN 61000-6 Immunity to voltage dips and breaks acc. to IEC/EN 61000-6 Immunity to voltage dips and breaks acc. to IEC/EN 61000-6 Immunity to voltage dips and breaks acc. to IEC/EN 61000-6 Immunity to voltage dips and breaks acc. to IEC/EN 61000-6 Immunity to voltage dips and breaks acc. to IEC/EN 61000-6 Immunity to voltage dips and breaks acc. to IEC/EN 61000-6 Immunity to voltage dips and breaks acc. to IEC/EN 61000-6 Immunity to voltage dips and breaks acc. to IEC/EN 61000-6 Immunity to voltage dips and breaks acc. to IEC/EN 61000-6 Immunity to voltage dips and breaks acc. to IEC/EN 61000-6 Immunity to voltage dips and breaks acc. to IEC/EN 61000-6 Immunity to voltage dips and breaks acc. to IEC/EN 61000-6 Immunity t		A = 0,35 mm		
discharges acc to IEC/EN 61000-4-2 Immunity to radiated, radio-frequency, electromagnetic field acc. IEC/EN 61000-4-3 Immunity to rapid transient bursts acc. to IEC/EN 61000-4-5 Immunity to shock waves on power supply acc. to IEC/EN 61000-4-5 Immunity to radio frequency in common mode acc. to IEC/EN 61000-4-5 Immunity to radio frequency in common mode acc. to IEC/EN 61000-4-5 Immunity to voltage dips and breaks acc. to IEC/EN 61000-4-6 Immunity to voltage dips and breaks acc. to IEC/EN 61000-4-6 Immunity to voltage dips and breaks acc. to IEC/EN 61000-6-1 Immunity to voltage		93 % sans condensation		
Immunity to rapid transient bursts acc. to IEC/EN 61000-4-5 Immunity to shock waves on power supply acc. to IEC/EN 61000-4-5 Immunity to radio frequency in common mode acc. to IEC/EN 61000-4-5 Immunity to voltage dips and breaks acc. to IEC/EN 61000-4-6 Immunity to voltage dips and breaks acc. to IEC/EN 61000-4-11 Mains-borne and radiated emissions acc. to EN 55022 (CISPR22), EN55011 (CISPR11) Fixing: Symmetrical DIN rail Connection capacity - with terrule Spring terminals, 2 terminals per connection point - flexible wire Housing material Weight: casing 17,5 mm Level III (direct 2kV / Capacitive coupling clamp 1 KV) Level III (direct 2kV / Capacitive coupling clamp 1 KV) Level III (direct 2kV / Capacitive coupling clamp 1 KV) Level III (2 KV / common mode 2 KV/residual current mode 1KV) Level III (10V rms : 0.15 M Hz to 80 M Hz) So M/10 ms 60 %/100 ms > 95 %/5 s Class B Class B Class B Class B So mm Connection capacity - with ferrule 2 x 2,5 mm² 2,5 mm² 4,5 mm² Self-extinguishing 8 olf-extinguishing Weight: casing 17,5 mm 6 0 g	discharges acc to IEC/EN 61000-4-2	Level III (Air 8 KV / Contact 6 KV)		
Immunity to shock waves on power supply acc. to IEC/EN 61000-4-5 Immunity to radio frequency in common mode acc. to IEC/EN 61000-4-6 Immunity to voltage dips and breaks acc. to IEC/EN 61000-4-11 Immunity to voltage dips and breaks acc. to IEC/EN 61000-4-11 Mains-borne and radiated emissions acc. to EN 55022 (CISPR22), EN55011 (CISPR11) Fixing: Symmetrical DIN rail Connection capacity - with ferrule Spring terminals, 2 terminals per connection point - rigid wire Spring terminals, 2 terminals per connection point - rigid wire Housing material Weight: casing 17,5 mm Level III (10V rms : 0.15 M Hz to 80 M Hz) Level III (10V rms : 0.15 M Hz to 80 M Hz to 80 M Hz to 8		Level III 10V/m (80 M Hz to 1 G Hz)		
Immunity to radio frequency in common mode acc. to IEC/EN 61000-4-6 Level III (10V rms : 0.15 M Hz to 80 M Hz) Level III (10V rms : 0.15 M Hz to 80 M Hz		Level III (direct 2kV / Capacitive coupling clamp 1 KV)		
Immunity to voltage dips and breaks acc. to IEC/EN 61000- 4-11 30 %/10 ms 60 %/100 ms > 95 %/5 s Mains-borne and radiated emissions acc. to EN 55022 (CISPR22), EN55011 (CISPR11) Fixing: Symmetrical DIN rail Connection capacity - without ferrule Connection capacity - with ferrule 2 x 2,5 mm² Spring terminals, 2 terminals per connection point - flexible wire Spring terminals, 2 terminals per connection point - rigid wire Spring terminals, 2 terminals per connection point - rigid wire Housing material Self-extinguishing 60 g		Level III (2 KV / common mode 2 KV/residual current mode 1KV)		
4-11 60 %/100 ms > 95 %/5 s Mains-borne and radiated emissions acc. to EN 55022 (CISPR22), EN55011 (CISPR11) 75 mm 5		Level III (10V rms : 0.15 M Hz to 80 M Hz)		
Class B Fixing: Symmetrical DIN rail 35 mm Connection capacity - without ferrule 2 x 2,5 mm² Connection capacity - with ferrule 2 x 1,5 mm² Spring terminals, 2 terminals per connection point - flexible wire 1,5 mm² Spring terminals, 2 terminals per connection point - rigid wire 2,5 mm² Housing material Self-extinguishing Weight: casing 17,5 mm 60 g		60 %/100 ms >		
Connection capacity - without ferrule 2 x 2,5 mm ² Connection capacity - with ferrule 2 x 1,5 mm ² Spring terminals, 2 terminals per connection point - flexible wire 1,5 mm ² Spring terminals, 2 terminals per connection point - rigid wire 2,5 mm ² Housing material Self-extinguishing Weight: casing 17,5 mm 60 g		Class B		
Connection capacity - with ferrule 2 x 1,5 mm ² Spring terminals, 2 terminals per connection point - flexible wire 1,5 mm ² Spring terminals, 2 terminals per connection point - rigid wire 2,5 mm ² Housing material Self-extinguishing Weight: casing 17,5 mm 60 g	Fixing : Symmetrical DIN rail	35 mm		
Spring terminals, 2 terminals per connection point - flexible wire Spring terminals, 2 terminals per connection point - rigid wire 2,5 mm² Housing material Self-extinguishing Weight: casing 17,5 mm 60 g	Connection capacity - without ferrule	2 x 2,5 mm ²		
Spring terminals, 2 terminals per connection point - flexible wire Spring terminals, 2 terminals per connection point - rigid wire 2,5 mm² Housing material Self-extinguishing Weight: casing 17,5 mm 1,5 mm² 2,5 mm² 60 g	Connection capacity - with ferrule	2 x 1,5 mm ²		
wire 2,5 mm² Housing material Self-extinguishing Weight: casing 17,5 mm 60 g				
Weight: casing 17,5 mm 60 g		2,5 mm ²		
	Housing material	Self-extinguishing		
Weight: casing 22.5 mm	Weight : casing 17,5 mm	60 g		
Troight Following Elips Hill	Weight : casing 22,5 mm	90 g		
Weight: plug-in casing 80 g	Weight : plug-in casing	80 g		

90

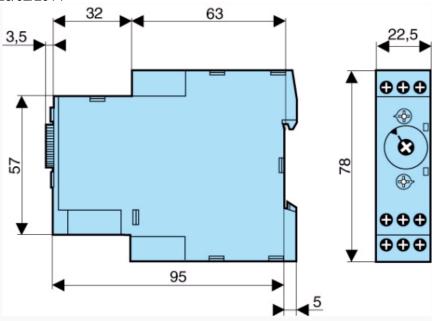
- Display
 State displayed by 2 LEDs
 Flashing green when on
 Relay LED yellow during timing
 Green LED operation indicator
 Pulsing:
 Timer on, no timing in process
 Permanently lit:

Permanently lit :

- Relay waiting, no timing in process

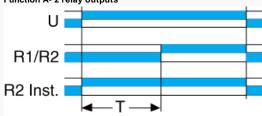
Dimensions (mm)

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Curves

Function A- 2 relay outputs

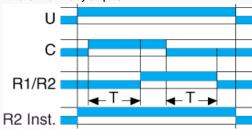


Function A

Delay on energisation with 2 timed outputs or 1 timed and 1 instantaneous

Curves

Function Ac- 2 relay outputs

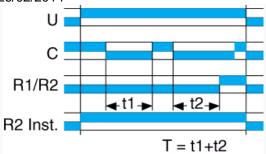


Function Ac

Timing after closing and opening of control contact with 2 timed outputs or 1 timed and 1 instantaneous

Curves

Function At - 2 relay outputs

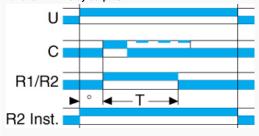


Function At

Timing on energisation with memory with 2 timed outputs or 1 timed and 1 instantaneous

Curves

Function B - 2 relay outputs

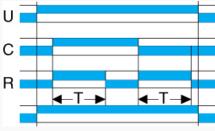


Function B

Timing on impulse one shot with 2 timed outputs or 1 timed and 1 instantaneous

Curves

Function Bw - 2 relay outputs

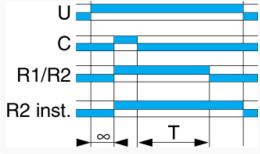


Function Bw

Pulse output (adjustable) with 2 timed outputs or 1 timed and 1 instantaneous

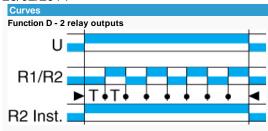
Curves

Function C - 2 relay outputs



Function C

Timing after impulse with 2 timed outputs or 1 timed and 1 instantaneous



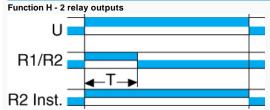
Function D

Flip-flop Pause start with 2 timed outputs or 1 timed and 1 instantaneous

Function Di

Flip-flop Pulse start with 2 timed outputs or 1 timed and 1 instantaneous

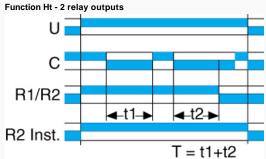
Curves



Function H

Timing on energisation with 2 timed outputs or 1 timed and 1 instantaneous

Curves



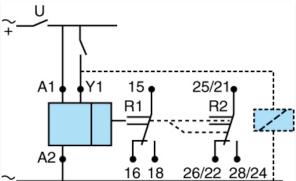
Function Ht

Delay on energisation with memory with 2 timed outputs or 1 timed and 1 instantaneous

Connections

2 changeover relay outputs

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Functions

A - At - B - C - H - Ht - Di - D - Ac - Bw Ad - Ah - N - O - P - Pt - TL - Tt - W

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