

Functions

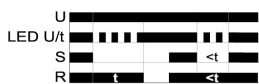
E

ON delay



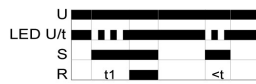
R

OFF delay



Es

ON delay with control contact



Bi

Flasher pulse first



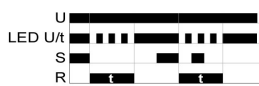
Bp

Flasher pause first



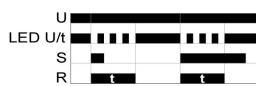
Wa

Single shot trailing edge with control contact



Ws

Single shot leading edge with control contact



Wu

Single shot leading edge voltage controlled



Timer Models



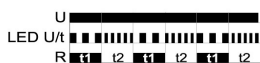
Model	G2ZMF11 24-240VAC/DC	G2ZMF11 **	G2ZM20
Functions	E, R, Es, Bi, Bp, Wa, Ws, Wu	E, R, Es, Bi, Bp, Wa, Ws, Wu	E, R, Es, Bi, Bp, Wa, Ws, Wu
Contacts	2 C/O Timed & Instantaneous	2 C/O Timed & Instantaneous	2 C/O Timed
Voltage	24 - 240VAC/DC	12 - 440VAC	12 - 240VAC/DC
	Select TR2 Voltage Module		
Time Range	50 msec - 30 days	50 msec - 30 days	50 msec - 100 hours
	16 ranges	16 ranges	7 ranges
Remote Pot (Model R2) Connection	Yes	Yes	No
Suitable for Frequency Converters	Yes	Yes	Yes
Size	22.5mm wide	22.5mm wide	22.5mm wide
List Price	\$283.18	\$245.89	\$186.15

** Please Note: TR2 Voltage Module needs to be selected for model with ** and is fitted before dispatch. The List Price above includes the TR2 Module. All TR2 Voltage Modules are listed in the Accessories Section.

Functions

li

Asymmetric flasher pulse first



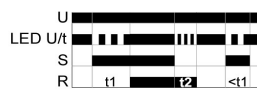
lp

Asymmetric flasher pause first



ER

ON and OFF delay with control contact



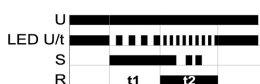
EWu

ON delay and single shot leading edge voltage controlled



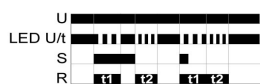
EWs

ON delay and single shot leading edge with control contact



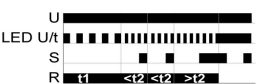
WsWa

Single shot leading and trailing edge with control contact



Wt

Pulse detection



Timer Models



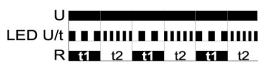
Model	G2ZIF20 24-240VAC/DC	G2ZIF20 **	R2
Function(s)	li, lp, ER, EWu, EWs, WsWa, Wt	li, lp, ER, EWu, EWs, WsWa, Wt	Panel Mounted Potentiometer
Type	Cycling Timer	Cycling Timer	
Contacts/Ohms	2 C/O Timed	2 C/O Timed	1MΩ
Voltage/IP Rating	24 - 240VAC/DC	12 - 440VAC	IP64
Select TR2 Voltage Module			
Time Range	50 msec - 10 hours 10 ranges	50 msec - 10 hours 10 ranges	
Remote Pot (Model R2)	Yes	Yes	
Use with Frequency Converters	Yes	Yes	
Size	22.5mm wide	22.5mm wide	22.5mm ø
List Price	\$287.34	\$261.08	\$59.41

** Please Note: TR2 Voltage Module needs to be selected for model with ** and is fitted before dispatch. The List Price above includes the TR2 Module. All TR2 Voltage Modules are listed in the Accessories Section.

Functions

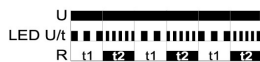
li

Asymmetric flasher pulse first



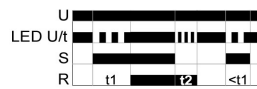
lp

Asymmetric flasher pause first



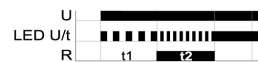
ER

ON and OFF delay with control contact



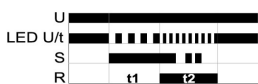
EWu

ON delay and single shot leading edge voltage controlled



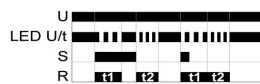
EWs

ON delay and single shot leading edge with control contact



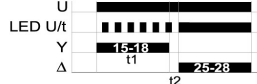
WsWa

Single shot leading and trailing edge with control contact



S

Star-Delta start-up



Timer Models



Model	G2ZI20	G2ZS20
Functions	li, lp, ER, EWu, EWs, WsWa	Star/Delta Timer
Type	Cycling Timer	
Contacts	2 C/O Timed	2 C/O Timed
Voltage	12 - 240VAC/DC	12 - 400VAC Select TR2 Voltage Module
Time Range	50 msec - 100 hours 7 ranges	Time Y - 500ms to 3min Time Yör - 40ms to 100ms
Suitable for Frequency Converters	Yes	Yes
Size	22.5mm wide	22.5mm wide
List Price	\$190.90	\$244.02

** Please Note: TR2 Voltage Module needs to be selected for model with ** and is fitted before dispatch. The List Price above includes the TR2 Module. All TR2 Voltage Modules are listed in the Accessories Section.

Functions

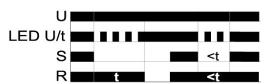
E

ON delay



R

OFF delay



Wu

Single shot leading edge voltage controlled



Bp

Flasher pause first



Timer Models



VEO Range
now with
PUSH-IN
terminals

Model	V2ZE10	V2ZR10	V2ZQ10
Model PUSH-IN Type			V2ZQ10P
Functions	ON Delay Timer (E)	OFF Delay Timer (R)	E, R, Wu, Bp
Contacts	1 C/O Timed	1 C/O Timed	1 C/O Timed
Voltage	24 - 240VAC/DC	24 - 240VAC/DC	24 - 240VAC/DC
Time Range	50 msec - 100 hours	50 msec - 100 hours	50 msec - 100 hours
	10 ranges	10 ranges	10 ranges
Response Time	150ms	150ms	150ms
Operating Temperature	-25 - +60 °C	-25 - +60 °C	-25 - +60 °C
Suitable for Frequency Converters	Yes	Yes	Yes
Size	22.5mm wide	22.5mm wide	22.5mm wide
List Price	\$105.28	\$110.97	\$130.89

Functions

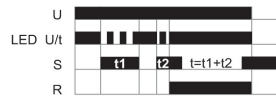
Wt

Pulse detection



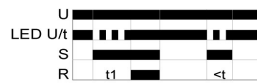
Ec

Additive ON delay



Es

ON delay with control contact



Bi

Flasher pulse first



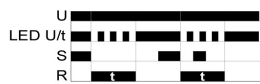
Bp

Flasher pause first



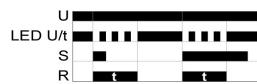
Wa

Single shot trailing edge with control contact



Ws

Single shot leading edge with control contact



Wu

Single shot leading edge voltage controlled



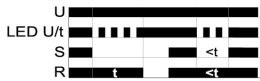
E

ON delay



R

OFF delay



Timer Models

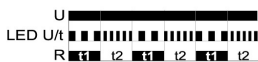


Model	V2ZM10	V2ZM10-A
Model PUSH-IN Type	V2ZM10P	
Functions	Wt, Ec, Es, Bi, Bp, Wa, Ws, Wu, E, R	Wt, Ec, Es, Bi, Bp, Ws, Wa, E, R, EWu (not shown)
Contacts	1 C/O Timed	1 C/O Timed
Voltage	12 - 240VAC/DC	12 - 240VAC/DC
Time Range	50 msec - 100 hours - 10 ranges	50 msec - 100 hours - 10 ranges
Response Time	150ms	150ms
Operating Temperature	-25 - +60 °C	-25 - +60 °C
Suitable for Frequency Converters	Yes	Yes
Size	22.5mm wide	22.5mm wide
List Price	\$165.07	\$165.07

Functions

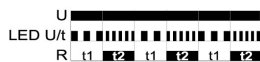
li

Asymmetric flasher pulse first



lp

Asymmetric flasher pause first



E

ON delay



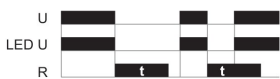
A

OFF Delay without Auxiliary Voltage



nWa

Maintained single shot trailing edge



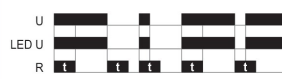
nWu

Maintained single shot leading edge



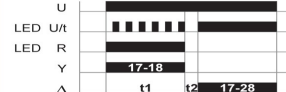
nWuWa

Maintained single shot leading & trailing edge



S

Star-Delta start-up



Timer Models



VEO Range
now with
PUSH-IN
terminals

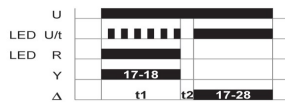


Model	V2ZI10	V2ZA10	V2ZS20
Model PUSH-IN Type	V2ZI10P		
Functions	li, lp	E, A, nWa, nWu, nWuWa	Star/Delta Timer (S)
Contacts	1 C/O Timed	1 C/O Timed	2 N/O Contacts
Voltage	12 - 240VAC/DC	24 - 240VAC/DC	12 - 240VAC/DC
Time Range	50 msec - 100 hours	100 msec - 3 min	Time Y - 50 msec to 3min
Features	10 ranges	4 ranges (no Aux)	Time Y→Δ - 40ms to 100ms
Response Time	150ms	150ms	150ms
Operating Temperature	-25 - +60 °C	-25 - +60 °C	-25 - +60 °C
Suitable for Frequency Converters	Yes	Yes	Yes
Size	22.5mm wide	22.5mm wide	22.5mm wide
List Price	\$178.24	\$244.35	\$160.99

Functions

S

Star-Delta start-up



Timer Models



Model	V2ZS20-E
Model PUSH-IN Type	
Functions	Star/Delta Timer (S)
Contacts	2 N/O Contacts
Voltage	12 - 240VAC/DC
Time Range	Time Y - 3sec to 1min
Response Time	150ms
Operating Temperature	-25 - +60 °C
Suitable for Frequency Converters	Yes
Size	22.5mm wide
List Price	\$107.75

Functions

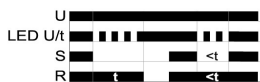
E

ON delay



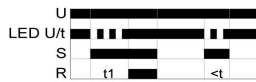
R

OFF delay



Es

ON delay with control contact



Wu

Single shot leading edge voltage controlled



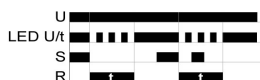
Bp

Flasher pause first



Wa

Single shot trailing edge with control contact



Ws

Single shot leading edge with control contact



Timer Models



Model	E1ZM10 12-240V	E1ZM10 24-240V	E3ZM20
Functions	E, R, Es, Wu, Bp, Wa, Ws	E, R, Es, Wu, Bp, Wa, Ws	E, R, Es, Wu, Bp, Wa, Ws
Voltage	12 - 240VAC/DC	24 - 240VAC/DC	12 - 240VAC/DC
Contacts	1 C/O Timed	1 C/O Timed	2 C/O Timed
Contact Rating	2000VA (8A - 250VAC)	2000VA (8A - 250VAC)	2000VA (8A - 250VAC)
Time Range	50 msec - 100 hours 7 ranges	50 msec - 100 hours 7 ranges	50 msec - 100 hours 7 ranges
Overvoltage Category	III (IEC 60664-1)	III (IEC 60664-1)	III (IEC 60664-1)
Rated Surge Voltage	4kV	4kV	4kV
Suitable for Frequency Converters	No	No	No
Size	17.5mm wide	17.5mm wide	35mm wide
List Price	\$143.53	\$123.78	\$200.16

Functions

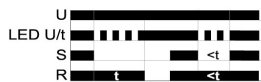
E

ON delay



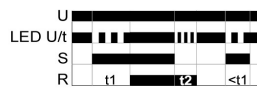
R

OFF delay



ER

ON and OFF delay with control contact



Wu

Single shot leading edge voltage controlled



Bp

Flasher pause first



Timer Models

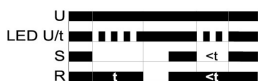


Model	E1ZMQ10	E1Z1E10	E1Z1ER10
Functions	E, R, Wu, Bp	ON Delay Timer - E	ON & OFF Delay with Control - ER
Voltage	24 - 240VAC/DC	24 - 240VAC/DC	24 - 240VAC/DC
Contacts	1 C/O Timed	1 C/O Timed	1 C/O Timed
Contact Rating	2000VA (8A - 250VAC)	2000VA (8A - 250VAC)	2000VA (8A - 250VAC)
Time Range	50 msec - 100 hours 7 ranges	50 msec - 100 hours 7 ranges	50 msec - 100 hours 7 ranges
Overvoltage Category	III (IEC 60664-1)	III (IEC 60664-1)	III (IEC 60664-1)
Rated Surge Voltage	4kV	4kV	4kV
Suitable for Frequency Converters	No	No	No
Size	17.5mm wide	17.5mm wide	17.5mm wide
List Price	\$94.81	\$89.55	\$101.83

Functions

R

OFF delay



Wa

Single shot trailing edge with control contact



Ws

Single shot leading edge with control contact



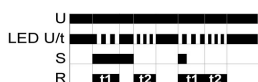
Wu

Single shot leading edge voltage controlled



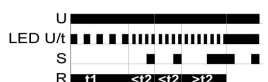
WsWa

Single shot leading and trailing edge with control contact



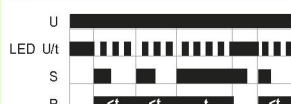
Wt

Pulse detection



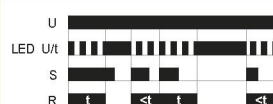
Wtf

Pulse sequence monitoring edge triggered



Wto

Pulse sequence monitoring edge triggered with on state



Timer Models

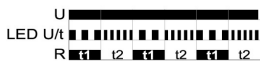


Model	E1ZMW10	E1ZMWt10
Functions	E, R, WsWa, Wu, Wa, Ws, Wt	E, R, Ws, Wa, Wtf, Wto, Wt
Voltage	24 - 240VAC/DC	24 - 240VAC/DC
Contacts	1 C/O Timed	1 C/O Timed
Contact Rating	2000VA (8A - 250VAC)	2000VA (8A - 250VAC)
Time Range	50 msec - 100 hours 7 ranges	50 msec - 100 hours 7 ranges
Overvoltage Category	III (IEC 60664-1)	III (IEC 60664-1)
Rated Surge Voltage	4kV	4kV
Suitable for Frequency Converters	No	No
Size	17.5mm wide	17.5mm wide
List Price	\$143.53	\$152.00

Functions

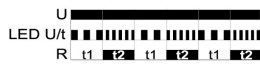
li

Asymmetric flasher pulse first



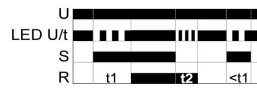
lp

Asymmetric flasher pause first



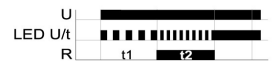
ER

ON and OFF delay with control contact



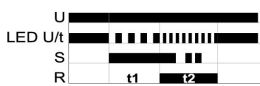
EWu

ON delay and single shot leading edge voltage controlled



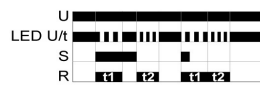
EWs

ON delay and single shot leading edge with control contact



WsWa

Single shot leading and trailing edge with control contact



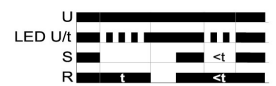
Wt

Pulse detection



R

OFF delay



Timer Models



Model	E1Z1R10	E1Z1I10	E3Z1I20
Functions	OFF Delay Timer - R	li, lp	li, lp, ER, Ewu, Ews, WsWa, Wt
Voltage	24 - 240VAC/DC	12 - 240VAC/DC	12 - 240VAC/DC
Contacts	1 C/O Timed	1 C/O Timed	2 C/O Timed
Contact Rating	2000VA (8A - 250VAC)	2000VA (8A - 250VAC)	2000V (8A - 250VAC)
Time Range	50 msec - 100 hours	50 msec - 100 hours	50 msec - 100 hours
	7 ranges	7 ranges	7 ranges
Overvoltage Category	III (IEC 60664-1)	III (IEC 60664-1)	III (IEC 60664-1)
Rated Surge Voltage	4kV	4kV	4kV
Suitable for Frequency Converters	No	No	No
Size	17.5mm wide	17.5mm wide	35mm wide
List Price	\$89.55	\$143.53	\$221.28

Functions

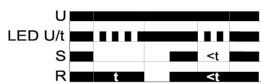
E

ON delay



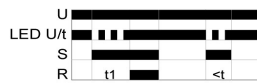
R

OFF delay



Es

ON delay with control contact



Wu

Single shot leading edge voltage controlled



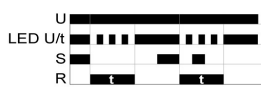
Bp

Flasher pause first



Wa

Single shot trailing edge with control contact



Ws

Single shot leading edge with control contact



Timer Models



Model	R11X	K3ZM20
Functions	11 Pin Base	E, R, Es, Wu, Bp, Wa, Ws
Voltage	300VAC	12 - 240VAC/DC
Contacts		2 C/O Timed
Contact Rating		2000VA (8A - 250VAC)
Time Range		50 msec - 100 hours 7 ranges
Overvoltage Category		III (IEC 60664-1)
Rated Surge Voltage		4kV
Suitable for Frequency Converters		No
Size	38mm wide	38mm wide
List Price	\$11.74	\$191.32

Functions

li

Asymmetric flasher pulse first



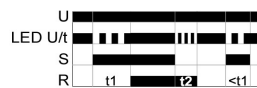
lp

Asymmetric flasher pause first



ER

ON and OFF delay with control contact



EWu

ON delay and single shot leading edge voltage controlled



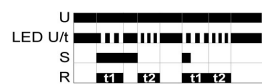
EWs

ON delay and single shot leading edge with control contact



WsWa

Single shot leading and trailing edge with control contact



Wt

Pulse detection



Timer Models



Model	R11X	K3ZI20
Functions	11 Pin Base	li, lp, ER, Ewu, Ews, WsWa, Wt
Voltage	300VAC	12 - 240VAC/DC
Contacts		2 C/O Timed
Contact Rating		2000V (8A - 250VAC)
Time Range		50 msec - 100 hours 7 ranges
Overvoltage Category		III (IEC 60664-1)
Rated Surge Voltage		4kV
Suitable for Frequency Converters		No
Size	38mm wide	38mm wide
List Price	\$11.74	\$191.32

Functions

E

ON delay



Wu

Single shot leading edge voltage controlled



Timer Models



Model	SRE2-10S	SRE2-1M	SRW2-10S
Functions	ON Delay Timer - E	ON Delay Timer - E	Wu
Voltage	24VDC	24VDC	24VDC
Contacts	Transistor Switching	Transistor Switching	Transistor Switching
Contact Rating	6W (200mA/30V)	6W (200mA/30V)	6W (200mA/30V)
Time Range	1s - 10s	6s - 1min	1s - 10s
Overvoltage Category	III (IEC 60664-1)	III (IEC 60664-1)	III (IEC 60664-1)
IP Rating	IP64	IP64	IP64
Rated Surge Voltage	4kV	4kV	4kV
Suitable for Frequency Converters	No	No	No
Size	22.5mm Hole	22.5mm Hole	22.5mm Hole
List Price	\$103.38	\$112.90	\$122.88

Functions

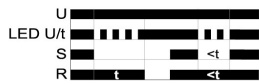
E

ON delay



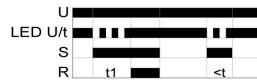
R

OFF delay



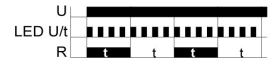
Es

ON delay with control contact



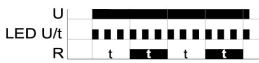
Bi

Flasher pulse first



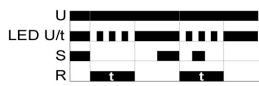
Bp

Flasher pause first



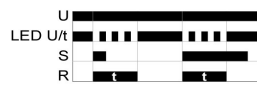
Wa

Single shot trailing edge with control contact



Ws

Single shot leading edge with control contact



Wu

Single shot leading edge voltage controlled



Timer Models



Model	ES9	ES12	Com3T
Functions	8 Pin Octal Base	11 Pin Octal Base	E, R, Es, Bi, Bp, Wa, Ws, Wu
Voltage	300VAC	300VAC	24 - 240VAC/DC
Contacts	2 C/O Timed	3 C/O Timed	
Contact Rating	Up to 10A with suitable Relay	Up to 10A with suitable Relay	Up to 10A with suitable Relay
Time Range			50 msec - 10 days 8 ranges
Suitable for Frequency Converters			No
Size	38mm wide	38mm wide	38mm wide
List Price	\$16.16	\$16.16	\$91.17

Please Note: The ES9 Base is suitable with any 8 Pin Octal Relay and the ES12 is suitable for any 11 Pin Octal Relay. Please contact us for options available.

Functions

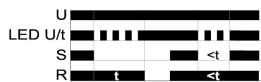
E

ON delay



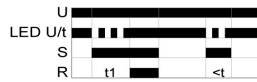
R

OFF delay



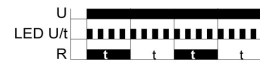
Es

ON delay with control contact



Bi

Flasher pulse first



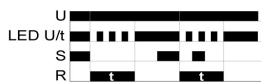
Bp

Flasher pause first



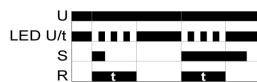
Wa

Single shot trailing edge with control contact



Ws

Single shot leading edge with control contact



Wu

Single shot leading edge voltage controlled



Timer Models



Model	TVC11	FSM10/24VAC/DC	FSM10/110-240VAC
Functions	11 Pin Octal Base	E, R, Es, Bi, Wu, Bp, Wa, Ws	E, R, Es, Bi, Wu, Bp, Wa, Ws
Voltage	300VAC	24VAC/DC	110 - 240VAC
Contacts/Application	Panel Mounting	1 C/O Timed	1 C/O Timed
Contact Rating		1250VA (5A - 250VAC)	1250VA (5A - 250VAC)
Time Range		1 msec - 1000 hours 8 ranges	1 msec - 1000 hours 8 ranges
Display		LCD	LCD
Indicators		Relay Status, Reset, Lock	Relay Status, Reset, Lock
Suitable for Frequency Converters		No	No
Size	45mm wide	45mm wide	45mm wide
List Price	\$14.25	\$434.55	\$434.55

Please Note: For DIN Rail Mounting of the FSM product range we recommend the R11X 11 Pin Octal Base.