

**SYR-LINE** Discover a new world  
**More power... slim size!**

BM1R  
BM2R  
BL1R  
BL2R  
BA1R  
BA2R



**2x8A**  
**DOUBLE**  
**OUTPUT**

**16A**  
**SINGLE**  
**OUTPUT**

# DISCOVER THE MOST **POWERFUL** TIMERS



## ABOUT **Syr-LINE**

The new specialized range at Crouzet, aimed to satisfy the most unique requirements of your applications by innovating in design, engineering and development.

Meet the first member of the Syr-Line range:

**The 17.5 mm Analog Timers**, a new family of 6 timers with higher power of 16 A and double output of 8 A, with all the classic functions and 2 additional special functions.

## HIGH POWER 1 x 16 A

### CONTROL MORE OR BIGGER LOADS

Forget about having a combination of Timer and Contactor to control bigger loads or a larger number of loads, Syr-Line are your all-in-one solution..

### EXTRA PROTECTION WHEN YOU NEED IT

Syr-Line products have greater capacity to withstand surge or inrush current than standard timers due to higher current capacity.

### SPECIAL FUNCTIONS:

#### LATCHING AND DELAYED LATCHING

Along with the classic functions, Syr-Line offers the special functions Latching (Alternating) (TL) and Delayed Latching (Alternating) (Tt), allowing you to turn on and off the output relay with a voltage signal.

### WIDE TIME RANGE

Program your timer to work from as little as 0.5 seconds delay to as long as a 10-day delay (240 hours).

## DOUBLE OUTPUT 2 x 8 A

### INSTANTANEOUS OR TIMED RELAY IN A SLIM PACKAGE

The only 17.5 mm timer on the market offering a dual output version with easy selection on the front face, allowing the option of both outputs to work together simultaneously, or one working instantaneously and the other delayed.

#### OPTION 1: INSTANTANEOUS

Turn on one output instantaneously and the second output with a time delay, to allow different loads to be switched-on gradually.

#### OPTION 2: TIMED

Select the two output relays working together and reduce costs by controlling different loads with the same device.

### MONO OR MULTI FUNCTION

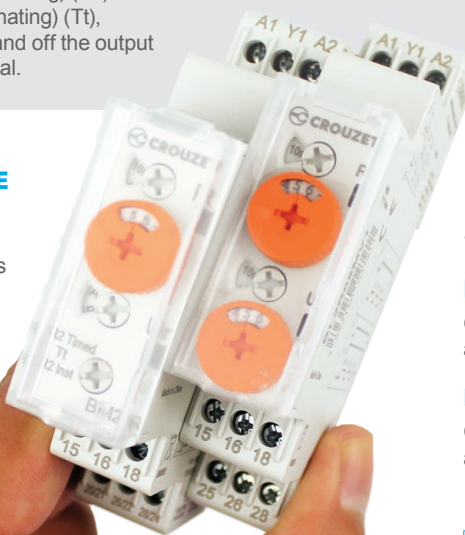
Select between a multifunction version with the 12 most popular functions or a monofunction version ON-Delay or Repeat-Cycle.

### INTERNATIONAL CERTIFICATIONS

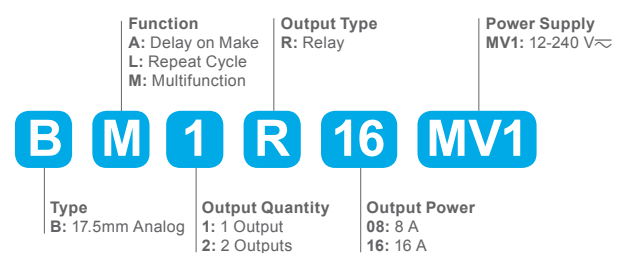
Compliant with the highest standards, Syr-Line 17.5 mm timers are cULus, CE, RoHS and CCC certified.

### ENGINEERING EXPERTISE FOR CUSTOM NEEDS

Crouzet can easily customize Syr-Line timers for your specific application.



### › Part Number System



# PRODUCT LAYOUT

## PROTECTIVE COVER

- › Protect the knobs and the front face from the environment and avoid accidental movement

## MODULAR SHAPE

- › To fit in modular panels

## SMALL SCREW POTENTIOMETERS

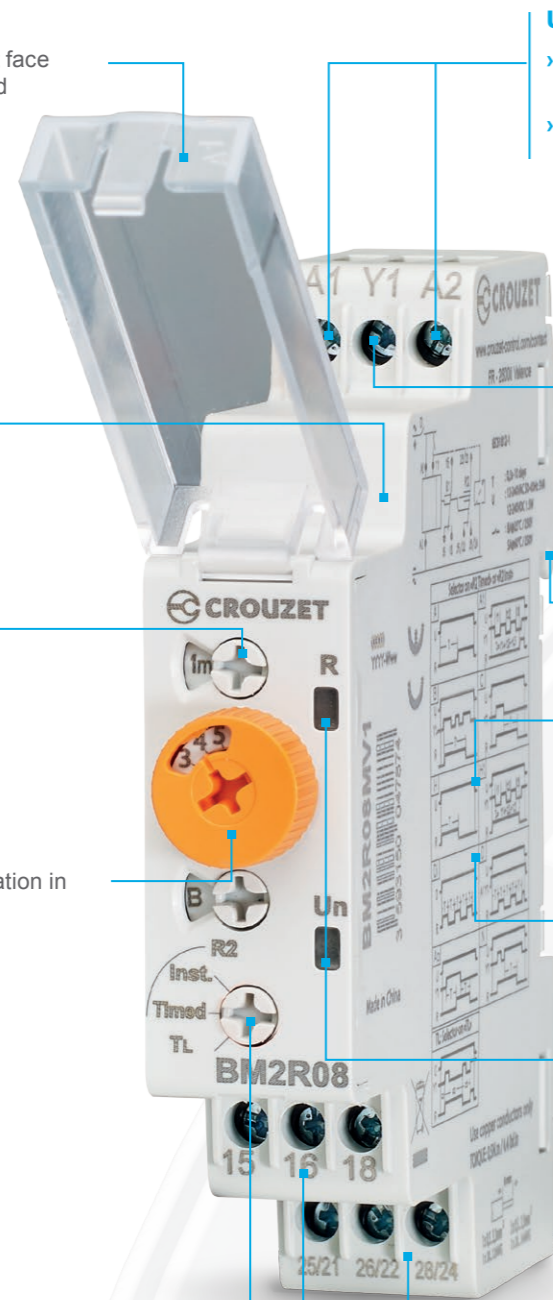
- › For right tuning of your timer

## LARGE POTENTIOMETERS

- › Allows to set the right configuration in your timer with your fingers

## SPECIAL FUNCTION

- › To select special functions Latching (Alternating) and Delayed Latching (Alternating) or select in double output versions if second relay works timed or instantaneous



## UNIVERSAL POWER SUPPLY

- › Syr-line timers fits all popular voltages from 12 → 240 V $\bar{c}$
- › Connexion compatible with the standard industrial layout

## SIGNAL INPUT

- › For functions when controlling the timer with a signal is needed

## DIN RAIL MOUNT

- › For easy installation in your panel

## SLIM PACKAGE

- › 17.5 mm width plastic housing that helps you save space in your panel

## FUNCTIONS MARKING

- › With all the function diagrams available for each part number

## 2 LED INDICATORS

- › For visualization of the status and output of your timer

## HIGH POWER 1 x 16 A

- › Relay output version for high power applications

## DOUBLE 2 x 8 A

- › Relay output version available for standard power applications that requires two relays

# PRODUCT FUNCTIONS

	BM1R	BM2R	BA1R	BA2R	BL1R	BL2R	BM1R	BM2R	BA1R	BA2R	BL1R	BL2R
<b>A</b>  ON-Delay (Delay on Make)	✓	✓	✓	✓								
<b>H</b>  Interval	✓	✓										
<b>Ac</b>  ON/OFF Delay (Delay on Make/Break)	✓	✓										
<b>Ht</b>  Interval with Memory	✓	✓										
<b>At</b>  Summation Time	✓	✓	✓	✓								
<b>B</b>  Single Shot (One Shot)	✓	✓										
<b>C</b>  OFF-Delay (Delay on Break)	✓	✓										
<b>D</b>  Flasher (Symmetrical) - OFF Start	✓	✓										
<b>Di</b>  Flasher (Symmetrical) - ON Start	✓	✓										
<b>N</b>  Watchdog	✓	✓										
<b>TL</b>  Latching (Alternating) - Leading Edge	✓	✓										
<b>Tt</b>  Delayed Latching (Alternating) - Leading Edge	✓											
<b>L</b>  Repeat Cycle (Asymmetrical) - OFF Start											✓	✓
<b>Li</b>  Repeat Cycle (Asymmetrical) - ON Start											✓	✓

U: Power Supply (A1/A2)  
 Y1: Trigger Signal (A1/Y1)  
 R1/R2: Relays Outputs Timed → R1 (15/16/18) → R2 (25/26/28)

R2: Relay Output Instantaneous (21/22/24)  
 T: Timing  
 ∞: Infinity



# PRODUCT OFFER

BM1R		BM2R		BA1R		BA2R		BL1R		BL2R	
<b>BM1R16MV1</b>		<b>BM2R08MV1</b>		<b>BA1R16MV1</b>		<b>BA2R08MV1</b>		<b>BL1R16MV1</b>		<b>BL2R08MV1</b>	
	1 X 16 A		2 X 8 A		1 X 16 A		2 X 8 A		1 X 16 A		2 X 8 A
	12-240 V $\sim$		12-240 V $\sim$		12-240 V $\sim$		12-240 V $\sim$		12-240 V $\sim$		12-240 V $\sim$
	Multifunction		Multifunction		Delay on Make A: ON-Delay At: + Memory		Delay on Make A: ON-Delay At: + Memory		Repeat Cycle L: OFF Start Li: ON Start		Repeat Cycle L: OFF Start Li: ON Start
	R1: Timed		R1: Timed R2: Timed/ Instantaneous		R1: Timed		R1/R2: Timed		R1: Timed		R1/R2: Timed

# PRODUCT MARKET

## ENERGY & INFRASTRUCTURE

- › Water & Waste Treatment
- › Water Filtration
- › Water Disinfection
- › Compactors

## FOOD & BEVERAGE

- › Baking Ovens
- › Refrigeration
- › Food & Drink Dispensers
- › Food Processing

## TRANSPORTATION

- › Trucks and Buses
- › Specialty Vehicles
- › Construction Equipment

## INDUSTRIAL

- › Assembly Machines
- › Machine Tools
- › Materials Handling
- › Metal Process
- › Motors and Drives
- › Packaging Equipment
- › Plastic Machinery
- › Test Equipment
- › Textile Manufacturing
- › Wood Process
- › Others

## COMMERCIAL

- › Printing & Other

## BUILDING

- › Access Control
- › Parking Barrier
- › Door Control
- › HVAC
- › Air
- › Filtration
- › Lighting
- › Building Automation



**AMERICAS**
**CANADA**

Tel.: +1 (855) 929-5465  
americas.custserv@crouzet.com

**MEXICO**

Tel.: +1 (855) 929-5465  
americas.custserv@crouzet.com

**USA**

+1 (855) 929-5465  
americas.custserv@crouzet.com

**COUNTRIES NOT LISTED**

+1 (855) 929-5465  
americas.custserv@crouzet.com

**EUROPE / MIDDLE EAST / AFRICA**
**BELGIUM**

Tel.: +32 (0) 2 620 06 05  
Fax: +32 (0) 2 461 00 23  
klantenservice@crouzet.com

**FRANCE**

Tel.: +33 (0) 475 802 101  
Fax: +33 (0) 475 828 900  
relationclient@crouzet.com

**GERMANY / AUSTRIA**

Tel.: +49 (0) 2103/9385930  
Fax: +49 (0) 2103/980-222  
kundenservice@crouzet.com

**ITALY**

Tel.: +39 (02) 38 594 099  
Fax: +39 (02) 82 952 104  
assistenzaclienti@crouzet.com

**SPAIN / PORTUGAL**

Tel.: +34 (91) 215 80 95  
Fax: +34 (93) 2 20 02 05  
atencionalcliente@crouzet.com

**SWITZERLAND**

Tel.: +41 (0) 225 67 57 90  
Fax: +41 (0) 565 88 02 75  
kundenservice@crouzet.com

**THE NETHERLANDS**

Tel.: +31 (0) 20-654 52 20  
klantenservice@crouzet.com

**UNITED KINGDOM**

Tel.: +44 (0) 2076 600 025  
customer.relation@crouzet.com

**COUNTRIES NOT LISTED**

Tel.: +33 (0) 475 802 102  
Fax: +33 (0) 475 828 900  
customer.relation@crouzet.com

**ASIA / PACIFIC**
**CHINA**

Tel.: +86 (21) 8025 7166  
Fax: +86 (21) 6107 1771  
china@crouzet.com

**INDIA**

Tel.: +91 (80) 4113 2204/05  
Fax: +91 (80) 4113 2206  
india@crouzet.com

**SOUTH KOREA**

Tel.: +82 (2) 2679 8312  
Fax: +82 (2) 2679 9888  
korea@crouzet.com

**EAST ASIA PACIFIC**

Tel.: +86 (21) 8025 7177  
Fax: +86 (21) 6107 1771  
eap@crouzet.com

**Warning:**

The product information contained in this catalogue is given purely as information and does not constitute a representation, warranty or any form of contractual commitment. Crouzet Automatismes SAS and its subsidiaries reserve the right to modify their products without notice. It is imperative that we should be consulted over any particular use or application of our products and it is the responsibility of the buyer to establish, particularly through all the appropriate tests, that the product is suitable for the use or application. Under no circumstances will our warranty apply, nor shall we be held responsible for any application (such as any modification, addition, deletion, use in conjunction with other electrical or electronic components, circuits or assemblies, or any other unsuitable material or substance) which has not been expressly agreed by us prior to the sale of our products.