

## VY03E115

### CONNECTION TECHNOLOGY • TIME STAGES

Our multi-function time relays / pulse stretchers can be considered as real alternatives when it comes to solutions for minor set control technology problems. The input signals, for example, can be switch-on or off delayed after a preset time. In order to be able to reduce the storage, multi-function relays can be used that provide, in addition to the already mentioned functions, operating modes like time-programming, pulse-forming or clocking. Besides, there is also star / delta change-over for load-contactors integrated in the motor start control. Reversing the switching logic or the polarity is possible with our fast signal inverters / impulse stretchers. These are characterized by extremely short response times and high switching frequencies. As an input circuit for a PLC these devices are perfect to record short signal or level changes.



#### MECHANICAL DATA

|   |                  |
|---|------------------|
| Ambient temperature                     | -25 °C ... 70 °C |
| Cable length                            | 0.3 m            |
| Degree of protection (IP)               | IP67             |
| Housing material                        | Plastic          |
| Mounting method                         | Direct mounting  |
| Positioning of cable feed, field side   | Straight         |
| Positioning of cable feed, housing side | Straight         |

#### ELECTRICAL DATA

|   |        |
|---|--------|
| Clock function, starting with break, variable         | No     |
| Clock function, starting with pulse, variable         | No     |
| Function flashing, starting with break, fixed time    | No     |
| Function flashing, starting with pulse, fixed time    | No     |
| Function on-delay                                     | No     |
| Max. output current                                   | 0.15 A |
| No-load current                                       | 20 mA  |
| Number of outputs, delayed, change-over contact       | 0      |
| Number of outputs, delayed, normally closed contact   | 0      |
| Number of outputs, delayed, normally open contact     | 1      |
| Number of outputs, undelayed, change-over contact     | 0      |
| Number of outputs, undelayed, normally closed contact | 0      |
| Number of outputs, undelayed, normally open contact   | 0      |
| Number of pins  | 3      |
| Number of pins of the connector                       | 4      |
| Number of pins of the coupling                        | 4      |
| Number of switching outputs                           | 1      |
| Number of time ranges                                 | 1      |
| OFF pulse function                                    | No     |
| Off-delayed function                                  | No     |

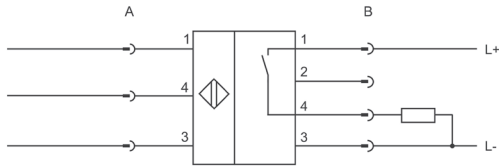
**ELECTRICAL DATA**

|   |                       |
|---|-----------------------|
| ON pulse function                           | No                    |
| Operating voltage                           | 10 V ... 35 V         |
| Outputs, delayed/undelayed selectable       | No                    |
| Pluggable on contactor                      | No                    |
| Pulse shaping function                      | No                    |
| Pulse stretching                            | 30 ms                 |
| Pulse stretching                            | 30 ms                 |
| Rated control supply voltage $U_s$ at DC    | 10 V ... 35 V         |
| Short-circuit-proof                         | Yes                   |
| Star-delta function                         | No                    |
| Switching voltage                           | 35 V                  |
| Time range                                  | 0.03 s ... 0.03 s     |
| Turn-off delay                              | 0.03 s                |
| Type of electrical connection               | Plug-in connection    |
| Type of electrical connection, field side   | M12                   |
| Type of electrical connection, housing side | M12                   |
| Type of plug-in contact, field side         | Female (socket)       |
| Type of plug-in contact, housing side       | Male (plug)           |
| Type of signal input A                      | PNP                   |
| Type of signal output                       | PNP                   |
| Type of switching function                  | Normally open contact |
| Voltage type                                | DC                    |
| With LED display                            | Yes                   |
| With plug-in socket                         | No                    |
| With semiconductor output                   | Yes                   |

**OTHER DATA**

|                                  |    |
|----------------------------------|----|
| Remote operation possible        | No |
| Suitable only for remote control | No |

## CONNECTION

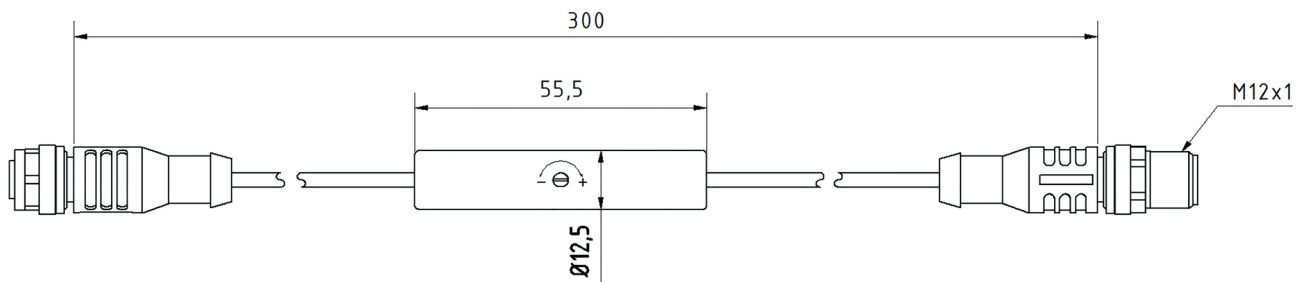


**Colors:** A: 1 = BN (brown), 3 = BU (blue), 4 = BK (black)

B: 1 = BN (brown), 2 = WH (white), 3 = BU (blue), 4 = BK (black) **Functions:** A: 1 = L+, 3 = L-, 4 = PNP NO

B: 1 = L+, 2 = n. c., 3 = L-, 4 = PNP NO

## DIMENSIONAL DRAWING



## INSTALLATION



Mounting / Installation may only be carried out by a qualified electrician!

## DISPOSAL



## SAFETY WARNINGS

Before initial operation, please make sure to follow all safety instructions that may be provided in the product information!