

## VY030224

### CONNECTION TECHNOLOGY • SIGNAL INVERTERS

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 (MAX)	70 °C
Ambient temperature (MIN)	-25 °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	0
Number of outputs, undelayed, change-over contact	0
Number of outputs, undelayed, normally closed contact	1
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
OFF pulse function	No
Off-delayed function	No

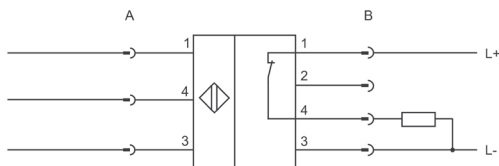
**ELECTRICAL DATA**

ON pulse function	No
Operating voltage (MAX)	35 V
Operating voltage (MIN)	10 V
Outputs, delayed/undelayed selectable	No
Pluggable on contactor	No
Pulse shaping function	No
Rated control supply voltage Us at DC (MAX)	35 V
Rated control supply voltage Us at DC (MIN)	10 V
Short-circuit-proof	Yes
Star-delta function	No
Switching frequency	10000 Hz
Switching voltage	35 V
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	Breaker contact
Voltage type	DC
With inversion	Yes
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+, 3 = L-, 4 = PNP NC

**DIMENSIONAL DRAWING**

**INSTALLATION**

**DISPOSAL**



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



## SAFETY WARNINGS

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

Never use these devices in applications where the safety of a person depends on their functionality.