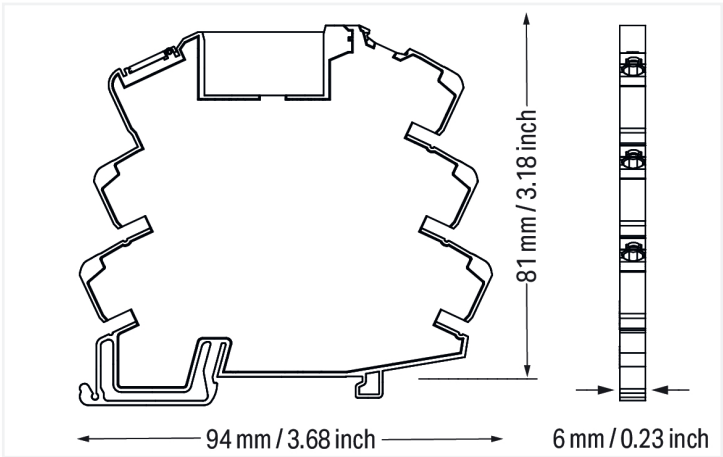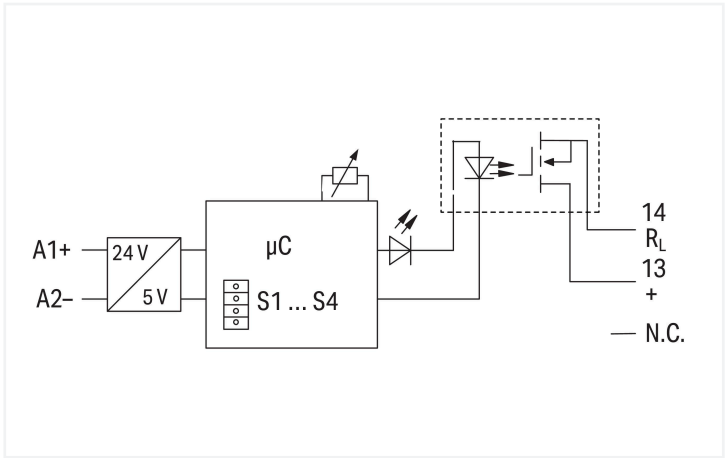# Data Sheet | Item Number: 857-624

Solid-state timer relay module; Nominal input voltage: 24 VDC; Output voltage range: 0 … 24 VDC; Limiting continuous current: 2 A; 2-wire connection; Multifunction/Multitime; Yellow status indicator; Module width: 6 mm

https://www.wago.com/857-624

Features:

- 4 functions
- Function and time range adjustable via DIP switch
- Potentiometer for fine adjustment of the time intervals

Notes	
Safety Information	Adjacent devices of the same type are devices of the same design (series) that are arranged next to one another on the DIN-rail with the same orientation. An end stop (249-116) must be fitted to devices of other types for compliance with the reinforced insulation requirements.

Technical data

Control circuit

Nominal input voltage U_N	24 VDC (SELV)
Input voltage range	-15 … +30 %
Nominal input current at U_N	10 mA
Time range	0.1 … 10 s 3 … 300 s 0.3 … 30 min 3 … 300 min
Reset time	50 ms
Repeat accuracy	1 %

Control circuit

Functions	On-delay Single-shot leading edge On-delay and single-shot leading edge (1 s fixed) Flashing

Load circuit

Circuit type	2-wire connection
Limiting continuous current	2 A
Nominal output voltage	24 VDC
Output voltage range	0 … 30 VDC
Voltage drop	≤ 0.12 VDC
Leakage current at rated voltage	≤ 1 µA
Switching current (min.)	50 µA
Turn-on time	≤ 100 µs
Turn-off time	≤ 2 ms
Short circuit protection (load circuit)	2 A; Fast (F); Test based on EN 61812-1 with short-circuit current 100 ADC

Signaling

Status indicator	Yellow LED

Safety and protection

Rated Voltage	300 V
Rated impulse withstand voltage	6.4 kV
Overvoltage category	II
Pollution degree	2
Dielectric strength (control/load circuit) (AC, 1 min)	3.75 kVrms
Insulation type (control/load circuit)	Reinforced insulation (safe isolation)
Insulation type (between adjacent devices of the same type)	Double insulation (safe isolation)
Insulation type (to adjacent devices of different types)	Basic insulation
Safety Information	Adjacent devices of the same type are devices of the same design (series) that are arranged next to one another on the DIN-rail with the same orientation. An end stop (249-116) must be fitted to devices of other types for compliance with the reinforced insulation requirements.
Protection type	IP20

Connection data

Connection technology	Push-in CAGE CLAMP®
Solid conductor	0.34 … 2.5 mm² / 22 … 14 AWG
Fine-stranded conductor	0.34 … 2.5 mm² / 22 … 14 AWG
Strip length	9 … 10 mm / 0.35 … 0.39 inches

Physical data

Width	6 mm / 0.236 inches
Height	94 mm / 3.701 inches
Depth from upper-edge of DIN-rail	81 mm / 3.189 inches

Mechanical data

Mounting type	DIN-35 rail

Material data

Note (material data)	Information on material specifications can be found here
Insulation material (main housing)	Polyamide (PA66)
Material group	I
Flammability class per UL94	V0
Fire load	0.482 MJ
Weight	29.5 g

Environmental requirements

Ambient temperature (operation at U_N)	-20 … +60 ℃
Ambient temperature (storage)	-40 … +70 ℃
Processing temperature	-25 … +50 ℃
Temperature range of connection cable	$\geq (T_{ambient} + 15 \text{ K})$
Relative humidity	5 … 95 % (no condensation permissible)
Operating altitude (max.)	2000 m

Standards and specifications

Standards/specifications	EN 61010-2-201
	EN 61373

Basic relay

WAGO Basic Relay	857-161

Commercial data

Product Group	6 (INTERFACE ELECTRONIC)
PU (SPU)	1 pcs
Packaging type	Bag
Country of origin	DE
GTIN	4050821565680
Customs tariff number	85364900990

Product Classification

UNSPSC	39122329
eCl@ss 10.0	27-37-16-05
eCl@ss 9.0	27-37-16-05
ETIM 9.0	EC001439
ETIM 8.0	EC001439
ECCN	NO US CLASSIFICATION

Environmental Product Compliance

CAS-No.	1303-86-2
	1317-36-8
	7439-92-1
	79-94-7
REACH Candidate List Substance	2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol
	Diboron trioxide
	Lead
	Lead monoxide
RoHS Compliance Status	Compliant,With Exemption
RoHS Exemption	7(a)
	7(c)-I
SCIP notification number (Austria)	debe81a1-15a1-4a4f-b8a1-1cc9dbf77da1
SCIP notification number (Belgium)	1e540a72-b56f-4b47-ab28-05b99f354198
SCIP notification number (Bulgaria)	8772d7cc-008d-4bb1-8cb9-a3a1c5824a42
SCIP notification number (Czech Republic)	f7ef3336-16eb-4e06-9ed1-c774015b095b
SCIP notification number (Denmark)	b31d4dc5-36c3-4ba4-9839-2efc41d86e1e
SCIP notification number (Finland)	cd2ac7ab-5cd7-4d1e-b264-2fffe6874404
SCIP notification number (France)	9dbbbc0d-e475-438c-a2a5-8755a3762df2
SCIP notification number (Germany)	ed5a1dd6-e2ff-40ea-8343-cf045e514b3c
SCIP notification number (Hungary)	be30e700-848b-4954-a0be-0b66c234ea76
SCIP notification number (Italy)	cfeaaf04-aa7f-4a45-987d-7c85eebd14e8
SCIP notification number (Netherlands)	35b9475d-b09b-4049-8c2c-616fdae3d3e1
SCIP notification number (Poland)	6a2db9b3-9e52-452f-b652-7fd09598200b

Environmental Product Compliance

SCIP notification number (Romania)	237a1ca6-3558-42d5-86ae-62b71c17ec16
SCIP notification number (Sweden)	edf543a3-85e1-42be-9ab9-092c88c92a7a

Approvals / Certificates

General approvals

Approval	Standard	Certificate Name
EAC GZO Almaty Standart	TP TC 020/2011	EAC CoC 03081
UL Underwriters Laboratories Inc. (ORDINARY LOCATIONS)	UL 508	E175199 Sec.4

Declarations of conformity and manufacturer's declarations

Approval	Standard	Certificate Name
EU-Declaration of Conformity WAGO GmbH & Co. KG	-	-
UK-Declaration of Conformity WAGO GmbH & Co. KG	-	-

Downloads

Environmental Product Compliance

Compliance Search

Environmental Product Compliance 857-624	↓

Documentation

Bid Text

857-624	19.02.2019	xml 4.69 KB	↓
857-624	20.02.2019	docx 16.72 KB	↓

Instruction Leaflet

Zeitrelaismodul; Eingangsnennspannung DC 24 V	V 2.0.0 10.03.2022	pdf 2021.26 KB	↓

CAD/CAE-Data

CAD data

2D/3D Models 857-624	↓

CAE data

EPLAN Data Portal 857-624	↓
WSCAD Universe 857-624	↓
ZUKEN Portal 857-624	↓

1 Compatible Products

1.1 Optional Accessories

1.1.1 Basic relay

1.1.1.1 Basic solid-state relay

Item No.: 857-161
Basic solid-state relay; Nominal input voltage: 24 VDC; Output voltage range: 0 … 30 VDC; Limiting continuous current: 3 A

1.1.2 Ferrule

1.1.2.1 Ferrule

Item No.: 216-241
Ferrule; Sleeve for 0.5 mm² / 20 AWG; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; white

Item No.: 216-242
Ferrule; Sleeve for 0.75 mm² / 18 AWG; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; gray

Item No.: 216-243
Ferrule; Sleeve for 1 mm² / AWG 18; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; red

Item No.: 216-244
Ferrule; Sleeve for 1.5 mm² / AWG 16; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; black

1.1.3 Jumper

1.1.3.1 Jumper

Item No.: 281-482
Jumper; 2-way; insulated; gray

Item No.: 859-410/000-006
Jumper; for jumper slot; 10-way; insulated; blue

Item No.: 859-410
Jumper; for jumper slot; 10-way; insulated; light gray

Item No.: 859-410/000-005
Jumper; for jumper slot; 10-way; insulated; red

Item No.: 859-410/000-029
Jumper; for jumper slot; 10-way; insulated; yellow

Item No.: 859-402/000-006
Jumper; for jumper slot; 2-way; insulated; blue

Item No.: 859-402
Jumper; for jumper slot; 2-way; insulated; light gray

Item No.: 859-402/000-005
Jumper; for jumper slot; 2-way; insulated; red

Item No.: 859-402/000-029
Jumper; for jumper slot; 2-way; insulated; yellow

Item No.: 859-403/000-006
Jumper; for jumper slot; 3-way; insulated; blue

Item No.: 859-403
Jumper; for jumper slot; 3-way; insulated; light gray

Item No.: 859-403/000-005
Jumper; for jumper slot; 3-way; insulated; red

Item No.: 859-403/000-029
Jumper; for jumper slot; 3-way; insulated; yellow

Item No.: 859-404/000-006
Jumper; for jumper slot; 4-way; insulated; blue

Item No.: 859-404
Jumper; for jumper slot; 4-way; insulated; light gray

Item No.: 859-404/000-005
Jumper; for jumper slot; 4-way; insulated; red

Item No.: 859-404/000-029
Jumper; for jumper slot; 4-way; insulated; yellow

Item No.: 859-405/000-006
Jumper; for jumper slot; 5-way; insulated; blue

Item No.: 859-405
Jumper; for jumper slot; 5-way; insulated; light gray

Item No.: 859-405/000-005
Jumper; for jumper slot; 5-way; insulated; red

Item No.: 859-405/000-029
Jumper; for jumper slot; 5-way; insulated; yellow

Item No.: 859-406/000-006
Jumper; for jumper slot; 6-way; insulated; blue

Item No.: 859-406
Jumper; for jumper slot; 6-way; insulated; light gray

Item No.: 859-406/000-005
Jumper; for jumper slot; 6-way; insulated; red

Item No.: 859-406/000-029
Jumper; for jumper slot; 6-way; insulated; yellow

Item No.: 859-407/000-006
Jumper; for jumper slot; 7-way; insulated; blue

Item No.: 859-407
Jumper; for jumper slot; 7-way; insulated; light gray

Item No.: 859-407/000-005
Jumper; for jumper slot; 7-way; insulated; red

1.1.3.1 Jumper

Item No.: 859-407/000-029
Jumper; for jumper slot; 7-way; insulated; yellow

Item No.: 859-408/000-006
Jumper; for jumper slot; 8-way; insulated; blue

Item No.: 859-408
Jumper; for jumper slot; 8-way; insulated; light gray

Item No.: 859-408/000-005
Jumper; for jumper slot; 8-way; insulated; red

Item No.: 859-408/000-029
Jumper; for jumper slot; 8-way; insulated; yellow

Item No.: 859-409/000-006
Jumper; for jumper slot; 9-way; insulated; blue

Item No.: 859-409
Jumper; for jumper slot; 9-way; insulated; light gray

Item No.: 859-409/000-005
Jumper; for jumper slot; 9-way; insulated; red

Item No.: 859-409/000-029
Jumper; for jumper slot; 9-way; insulated; yellow

1.1.4 Marking

1.1.4.1 Double marker carrier

Item No.: 209-128
Adaptor; gray

1.1.4.2 Group marker carrier

Item No.: 249-105
Group marker carrier; gray

1.1.4.3 Marker

Item No.: 209-183
Marker; white

Item No.: 793-5501
WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; white

Item No.: 793-502
WMB marking card; as card; MARKED; 1 ... 10 (10x); not stretchable; Horizontal marking; snap-on type; white

Item No.: 793-566
WMB marking card; as card; MARKED; 1 ... 50 (2x); not stretchable; Horizontal marking; snap-on type; white

Item No.: 793-503
WMB marking card; as card; MARKED; 11 ... 20 (10x); not stretchable; Horizontal marking; snap-on type; white

Item No.: 793-504
WMB marking card; as card; MARKED; 21 ... 30 (10x); not stretchable; Horizontal marking; snap-on type; white

Item No.: 793-505
WMB marking card; as card; MARKED; 31 ... 40 (10x); not stretchable; Horizontal marking; snap-on type; white

Item No.: 793-506
WMB marking card; as card; MARKED; 41 ... 50 (10x); not stretchable; Horizontal marking; snap-on type; white

Item No.: 793-501
WMB marking card; as card; not stretchable; plain; snap-on type; white

Item No.: 2009-115
WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; white

1.1.4.4 Marking device

Item No.: 210-110
Fiber-tip pen

1.1.4.5 Marking strip

Item No.: 2009-110
Marking strips; for Smart Printer; on reel;
not stretchable; plain; snap-on type; white

1.1.4.6 Protective marker cover

Item No.: 209-184
Protection cover; transparent

1.1.5 Tool

1.1.5.1 Operating tool

Item No.: 210-720
Operating tool; Blade: 3.5 x 0.5 mm; with a
partially insulated shaft; multicoloured

Subject to changes. Please also observe the further product documentation!

Current addresses can be found at:: www.wago.com