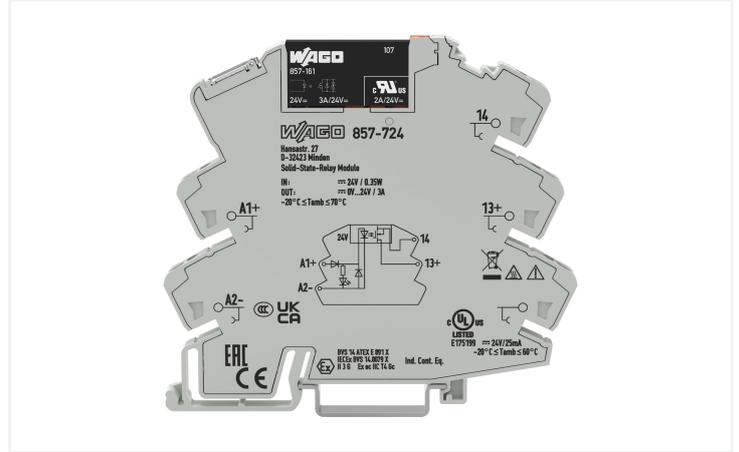


# Data Sheet | Item Number: 857-724

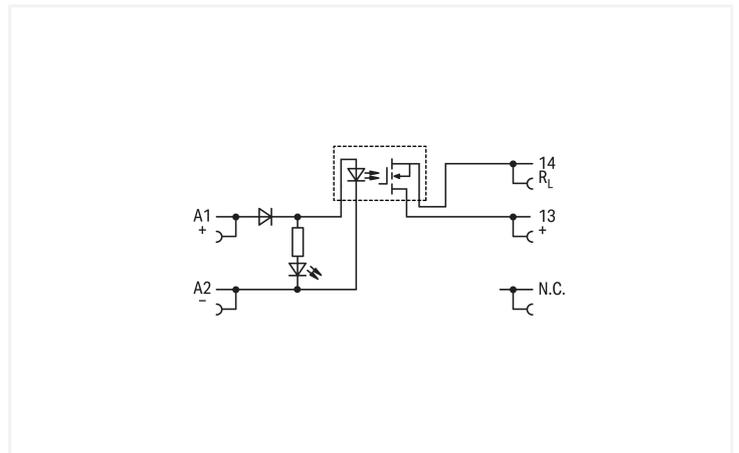
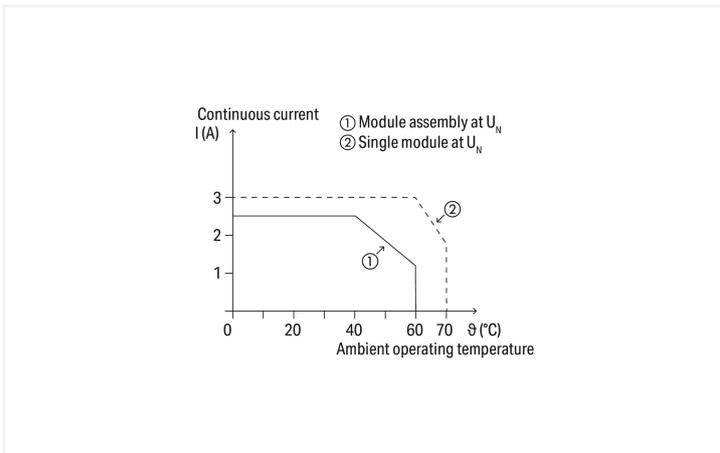
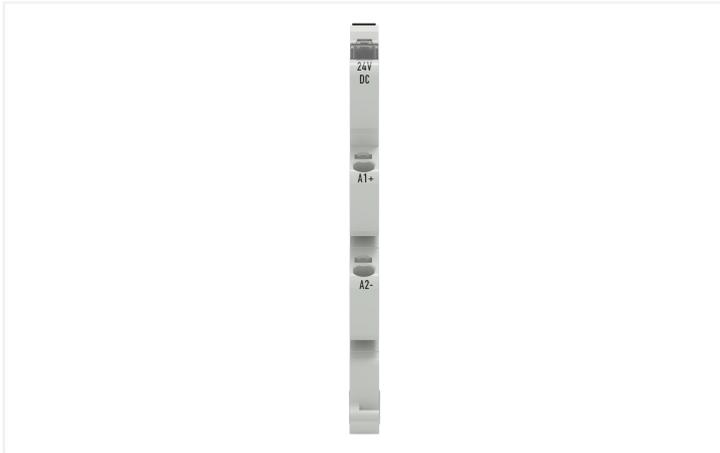
Solid-state relay module; Nominal input voltage: 24 VDC; Output voltage range: 0 ... 24 VDC; Limiting continuous current: 3 A; 2-wire connection; Yellow status indicator; Module width: 6 mm; gray



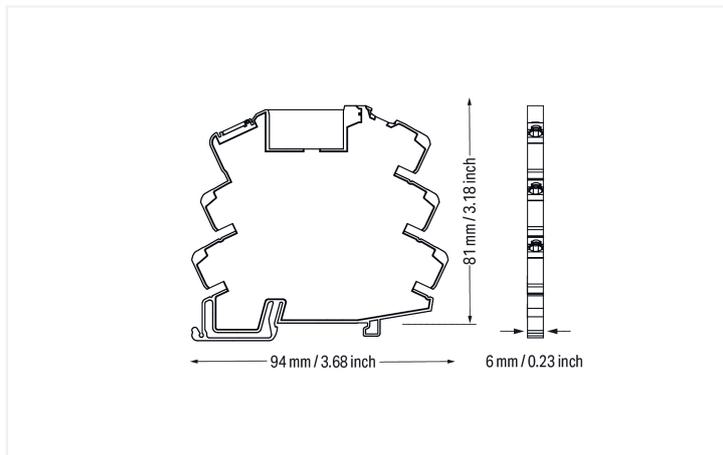
<https://www.wago.com/857-724>



Color: ■ gray



Current-carrying capacity curve



## Technical data

### Control circuit

Nominal input voltage $U_N$	24 VDC
Input voltage range (low level)	0 ... 10 VDC
Input voltage range (high level)	18.8 ... 31.2 VDC
Nominal input current at $U_N$	10 mA

### Load circuit

Circuit type	2-wire connection
Limiting continuous current	3 A
Inrush current (resistive) max.	(AC) 15 A / 0.01 s
Nominal output voltage	24 VDC
Output voltage range	0 ... 30 VDC
Voltage drop	$\leq 0.12$ VDC
Leakage current at rated voltage	$\leq 1$ $\mu$ A
Switching current (min.)	50 $\mu$ A
Turn-on time	$\leq 100$ $\mu$ s
Turn-off time	$\leq 600$ $\mu$ s
Switching frequency	$\leq 350$ Hz

## Signaling

Status indicator	Yellow LED
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## Safety and protection

Rated Voltage	300 V
Overvoltage category	III
Pollution degree	2
Dielectric strength (control/load circuit) (AC, 1 min)	3.51 kVrms
Insulation type (control/load circuit)	Basic insulation
Insulation type (between adjacent devices of the same type)	Reinforced insulation (safe isolation)
Insulation type (to adjacent devices of different types)	Basic insulation
Protection type	IP20

### Connection Data

Connection technology	Push-in CAGE CLAMP®
Solid conductor	0.34 ... 2.5 mm <sup>2</sup> / 22 ... 14 AWG
Fine-stranded conductor	0.34 ... 2.5 mm <sup>2</sup> / 22 ... 14 AWG
Fine-stranded conductor; with insulated ferrule	0.34 ... 1.5 mm <sup>2</sup> / 22 ... 16 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
Mounting position	horizontal (standing/lying); vertical

### Material data

Note (material data)	<a href="#">Information on material specifications can be found here</a>
Color	gray
Insulation material (main housing)	Polyamide (PA66)
Material group	I
Flammability class per UL94	V0
Fire load	0.484 MJ
Weight	28.9 g

### Environmental requirements

Ambient temperature (operation at U <sub>N</sub> )	-20 ... +70 °C
Ambient temperature (storage)	-40 ... +70 °C
Processing temperature	-25 ... +50 °C
Temperature range of connection cable	≥ (T <sub>ambient</sub> + 30 K)
Relative humidity	5 ... 85 % (no condensation permissible)
Operating altitude (max.)	2000 m

### Standards and Specifications

Standards/specifications	EN 61000-6-2 EN 61000-6-3 EN 61373 EN 61010-2-201 UL 508 DNV
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### Basic relay

WAGO Basic Relay	857-161
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### Commercial data

Product Group	6 (INTERFACE ELECTRONIC)
PU (SPU)	25 (1) pcs
Packaging type	Box
Country of origin	CN
GTIN	4045454835552
Customs tariff number	85365005000

### Product Classification

UNSPSC	39121524
eCl@ss 10.0	27-26-15-03
eCl@ss 9.0	27-26-15-03
ETIM 9.0	EC001504
ETIM 10.0	EC001504
ECCN	NO US CLASSIFICATION

### Environmental Product Compliance

CAS-No.	7439-92-1 79-94-7
REACH Candidate List Substance	2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol Lead
RoHS Compliance Status	Compliant,With Exemption
RoHS Exemption	7(a)
SCIP notification number (Austria)	4c3c2ea5-2e94-442b-915a-5d1a4401fe9d
SCIP notification number (Belgium)	6f3cc24d-016f-43df-8f10-5ecf14a0d835
SCIP notification number (Bulgaria)	a55753fc-7e73-4a90-a3ed-96120b278e8c
SCIP notification number (Czech Republic)	262dbe65-8354-4473-98dd-9133719ac15f
SCIP notification number (Denmark)	16586496-ae9b-4ffc-8163-617042706c16
SCIP notification number (Finland)	b0d861ae-536a-49be-9ec8-e00133c0cd7c
SCIP notification number (France)	d5037c32-314e-4adc-b19d-59e744a03d3b
SCIP notification number (Germany)	04599cf8-d47d-4150-afaa-ed9af5d28176
SCIP notification number (Hungary)	a40ad6a2-af12-4a11-81cc-719e8ea425a5
SCIP notification number (Italy)	2acbb0d2-ac01-4307-8d57-29198b87dbcc
SCIP notification number (Netherlands)	514c3669-3293-4257-a314-2ec4f8e3b14c
SCIP notification number (Poland)	0188f463-1661-4795-b547-b3d70d590ea2
SCIP notification number (Romania)	98d09167-c9e2-43bc-9e0b-c38e8516f11c
SCIP notification number (Sweden)	4c271a6a-cb8f-4d2f-8f9c-8ae19e56a659

### 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	-	-

Approvals for marine applications



Approval	Standard	Certificate Name
BV Bureau Veritas S.A.	Rules for class. of Steel Ships	40179_B0
DNV DNV Germany GmbH	DNV-CG-0339, Aug. 2021	TAA00001D1
PRS Polski Rejestr Statków	-	TE/1098/880590/23

Approvals for hazardous areas



Approval	Standard	Certificate Name
ATEX DEKRA EXAM GmbH	EN 60079-0	BVS_14_ATEX_E_091_X (II 3G Ex ec nC IIC T4 Gc; II 3G Ex ec IIC T4 Gc)
CCC CNEX	CNCA-C23-01	2020312304000757 (Ex ec IIC T4 Gc)
IECEX DEKRA EXAM GmbH	IEC 60079-0	IECEX_BVS_14.0079X_Issue_3 (Ex ec nC IIC T4 Gc; Ex ec IIC T4 Gc)
UKEX WAGO GmbH & Co. KG	EN 60079-0	WAGO22UKEX002X_ec

Downloads

Environmental Product Compliance

Compliance Search
Environmental Product Compliance 857-724 <a href="#">↓</a>

Documentation

Bid Text			
857-724	19.02.2019	xml 4.12 KB	<a href="#">↓</a>
857-724	20.02.2019	docx 16.10 KB	<a href="#">↓</a>

Instruction Leaflet			
CCC Ex (Additional information)	26.04.2023	pdf 129.88 KB	<a href="#">↓</a>

CAD/CAE-Data

CAD data
2D/3D Models 857-724 <a href="#">↓</a>

CAE data
EPLAN Data Portal 857-724 <a href="#">↓</a>
WSCAD Universe 857-724 <a href="#">↓</a>
ZUKEN Portal 857-724 <a href="#">↓</a>

## 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 mm<sup>2</sup> / 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 mm<sup>2</sup> / 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 mm<sup>2</sup> / 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 mm<sup>2</sup> / AWG 16; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; black

#### 1.1.3 Interface module

##### 1.1.3.1 Interface adapters



**Item No.: 857-981**

Interface adapter; 14-pole; High-side switching input



**Item No.: 857-982**

Interface adapter; 14-pole; High-side switching output



**Item No.: 857-986**

Interface adapter; 15-pole; High-side switching input

#### 1.1.4 Jumper

##### 1.1.4.1 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

1.1.4.1 Jumper



**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



**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

1.1.5 Marking

1.1.5.1 Double marker carrier



**Item No.: 209-128**  
Adaptor; gray

1.1.5.2 Group marker carrier



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

1.1.5.3 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

### 1.1.5.3 Marker



**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

### 1.1.5.4 Marking device



**Item No.: 210-110**

Fiber-tip pen

### 1.1.5.5 Marking strip



**Item No.: 2009-110**

Marking strips; for Smart Printer; on reel; not stretchable; plain; snap-on type; white

### 1.1.5.6 Protective marker cover



**Item No.: 209-184**

Protection cover; transparent

## 1.1.6 Tool

### 1.1.6.1 Operating tool

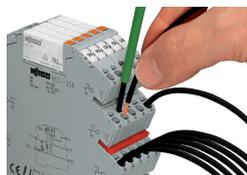


**Item No.: 210-720**

Operating tool; Blade: 3.5 x 0.5 mm; with a partially insulated shaft; multicoloured

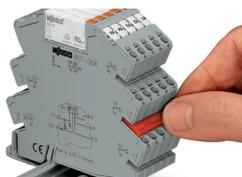
## Installation Notes

### Conductor termination



Conductor termination

## Commoning



Easy commoning using adjacent jumpers

## Marking



Marking via WMB Multi Marking System.

## Installation



Removing a relay via ejector.