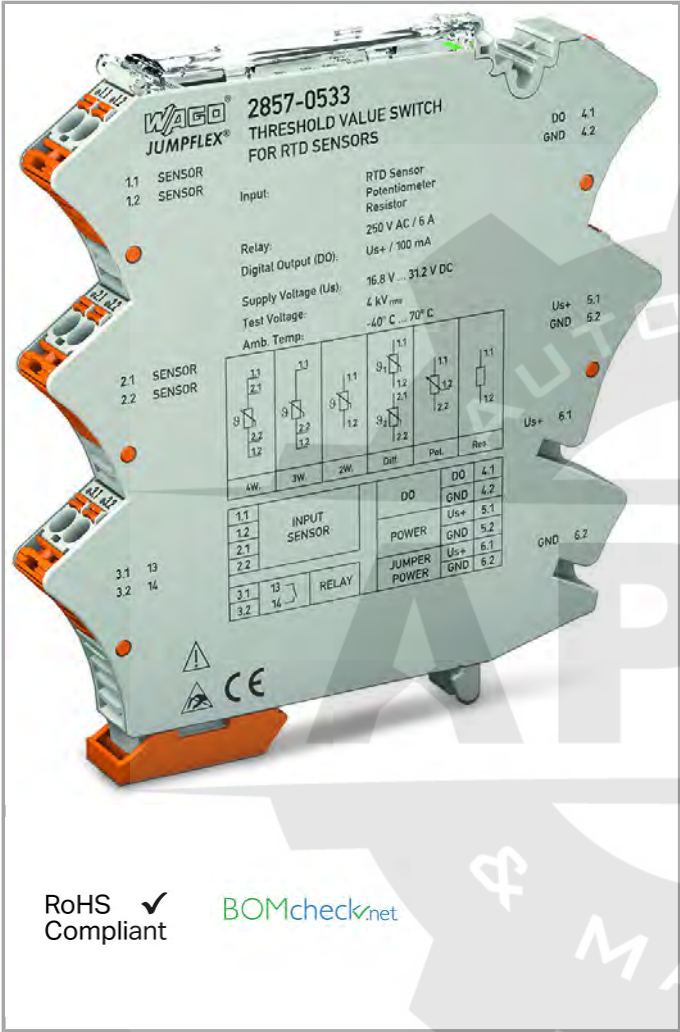
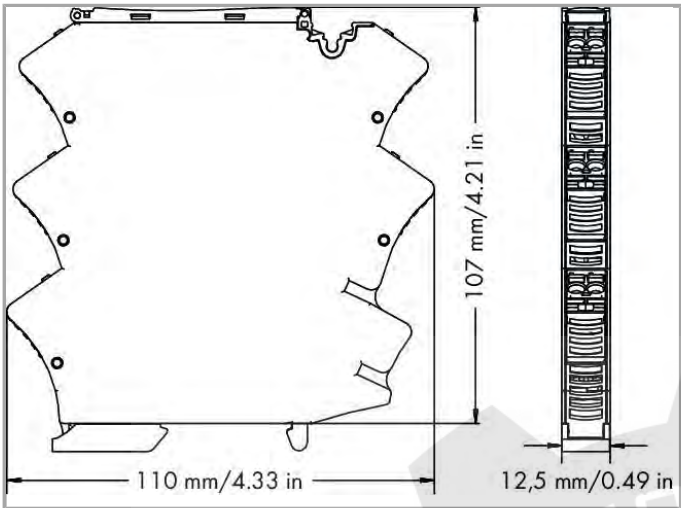




2857-533



4W.	3W.	2W.	Diff.	Pot.	Res.	
1.1	INPUT SENSOR			DO	DO	4.1
1.2					GND	4.2
2.1				POWER	Us+	5.1
2.2					GND	5.2
3.1	RELAY			JUMPER POWER	Us+	6.1
3.2					GND	6.2



2857-533
DIP Switch Adjustability

• ON **Default**

Sensor Type		Connection Technology		Hysteresis		Rise/Fall Delay Relay/DO		T / °		T / °		T / °		T / °		T / °		T / °	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Pt100		2-wire		3		5		1		2		3		4		5		6	
Pt100		3-wire		5		1		2		3		4		5		6		7	
Pt100		4-wire		1		2		3		4		5		6		7		8	
Resistance		Difference		1		2		3		4		5		6		7		8	
Potentiometer				1		2		3		4		5		6		7		8	

Start Value		End Value		Start Value		End Value		Start Value		End Value		Start Value		End Value		Start Value		End Value	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
OFF		OFF		OFF		OFF		OFF		OFF		OFF		OFF		OFF		OFF	
-200		15		5%		-200		15		5%		-200		15		5%		-200	
-150		22		10%		-150		22		10%		-150		22		10%		-150	
-100		33		15%		-100		33		15%		-100		33		15%		-100	
-50		47		20%		-50		47		20%		-50		47		20%		-50	
-10		66		25%		-10		66		25%		-10		66		25%		-10	
10		100		30%		10		100		30%		10		100		30%		10	
20		120		35%		20		120		35%		20		120		35%		20	
30		150		40%		30		150		40%		30		150		40%		30	
40		220		45%		40		220		45%		40		220		45%		40	
50		330		50%		50		330		50%		50		330		50%		50	
60		470		55%		60		470		55%		60		470		55%		60	
70		550		60%		70		550		60%		70		550		60%		70	
80		660		65%		80		660		65%		80		660		65%		80	
90		1000		70%		90		1000		70%		90		1000		70%		90	
100		1200		75%		100		1200		75%		100		1200		75%		100	
150		1500		80%		150		1500		80%		150		1500		80%		150	
200		2200		85%		200		2200		85%		200		2200		85%		200	
250		3300		90%		250		3300		90%		250		3300		90%		250	
300		4700		95%		300		4700		95%		300		4700		95%		300	
350		5500		100%		350		5500		100%		350		5500		100%		350	
400		6600		OFF		400		6600		OFF		400		6600		OFF		400	
450		10000		OFF		450		10000		OFF		450		10000		OFF		450	
500		12000		OFF		500		12000		OFF		500		12000		OFF		500	
550		15000		OFF		550		15000		OFF		550		15000		OFF		550	
600		22000		OFF		600		22000		OFF		600		22000		OFF		600	
650		33000		OFF		650		33000		OFF		650		33000		OFF		650	
700		47000		OFF		700		47000		OFF		700		47000		OFF		700	
750		55000		OFF		750		55000		OFF		750		55000		OFF		750	
800		66000		OFF		800		66000		OFF		800		66000		OFF		800	
850		100000		OFF		850		100000		OFF		850		100000		OFF		850	

Item description

Short description:

WAGO's RTD Threshold Value Switch for RTD sensors, potentiometers and resistors monitors and reports signals of up to two switching thresholds.

Features:

- Both digital signal output and relay with make contact react to configured measuring range limits (switching ON/OFF delay and threshold value switch function configurable with up to two threshold values).
- Configurable RTD factor
- Adjustable software filter
- Input/Output response simulation via configuration display
- Safe 3-way isolation with 4 kV test voltage per EN 61140

Note:

Additional setting options via interface configuration software or interface configuration app

Data
Technical Data

Configuration

Configuration options

DIP switches
Interface configuration software

Interface configuration app
 Configuration display

Input

Input signal type	RTD sensors Potentiometers Resistance
-------------------	---

Input – RTD sensors

Sensor types (RTD)	Pt100 Pt200 Pt500 Pt1000 Pt5000 Pt10000 Pt10 ... Pt20000
Sensor connection	2-wire; 3-wire; 4-wire; difference
Max. sensor supply current (RTD)	≤ 0.5 mA
Measurement range temperature (RTD)	-200 ... 850°C

Input – Resistors

Input range resistance	0 ... 100 kΩ
Input range potentiometer	0 ... 100 kΩ

Output – Digital

Max. switching voltage (DO)	Supply voltage applied: -0.3 V
Max. continuous current (DO)	100 mA (no internal restriction)
Number of switching thresholds (DO)	1 or 2 (adjustable)
Configurable rise/fall delay time (DO)	0 ... 60 s (via software)

Output – Relay

Dielectric strength open contact (AC, 1 min)	1 kV _{rms}
Number of make contacts/switch on contacts	1
Contact material (relay)	AgNi + Au
Max. switching voltage	AC 250 V
Limiting continuous current (relay; terminal block assembly)	6 A (≤ 60 °C); 3 A (60 ... 70 °C)
Dielectric strength open contact (AC, 1 min)	1 kV _{rms}
Pull-in time (typ.)	8 ms
Drop-out time (typ.)	4 ms
Bounce time (typ)	8 ms
Number of switching thresholds (relay)	1 or 2 (adjustable)

Configurable rise/fall delay time (relay)	0 ... 60 s (via software)
---	---------------------------

Signal processing

Software filter; adjustable	moving mean value (filtering level: 30)
Hysteresis	adjustable via DIP switch or software
Step response typ.	60 ms (2-wire); 360 ms (3-wire); 540 ms (4-wire); 360 ms (potentiometer)

Measurement error

Transmission error max.	±1 K
Temperature coefficient	≤ 0.01 %/K

Power supply

Type of power supply	24 VDC
Nominal supply voltage U_S	DC 24 V
Supply voltage range	±30 %
Current consumption at supply voltage	≤ 40 mA (+ I_{DO})

Safety and protection:

Test voltage (input/output/supply)	AC 4 kV; 50 Hz; 1 min
Protection class	IP20

Connection data

Connection technology	Push-in CAGE CLAMP®
WAGO terminal	picoMAX® 5.0
Solid conductor	0.2 ... 2.5 mm² / 24 ... 12 AWG
Fine-stranded conductor	0.2 ... 2.5 mm² / 24 ... 12 AWG
Strip length	9 ... 10 mm / 0.35 ... 0.39 inch

Geometrical Data

Width	12.5 mm / 0.492 inch
Height from upper-edge of DIN-35 rail	107 mm / 4.213 inch
Depth	110 mm / 4.331 inch

Mechanical data

Type of mounting	DIN-35 rail
------------------	-------------

Material Data

Fire load	0 MJ
Weight	86.5 g

Environmental Requirements

Surrounding air (operating) temperature	-40 ... 70 °C
Surrounding air (storage) temperature	-40 ... 85 °C

Standards and specifications

Conformity marking	CE
EMC immunity to interference	EN 61000-6-2; EN 61326-2-3; EN 50121-3-2
EMC emission of interference	EN 61000-6-4; EN 61326-2-3; EN 50121-3-2
Standards/specifications	EN 61010-1; EN 61373

Commercial data

Product Group	6 (Interface Electronics)
Country of origin	DE
GTIN	4050821676973
Customs Tariff No.	90303380900

Compatible products

power supply



Item no.: 787-2852	
Switched-mode power supply; for JUMPFLEX® Signal Conditioners; 1-phase; 24 VDC output voltage; 1 A output current	787-2852

Marking accessories



Item no.: 2009-110	
Marking strips; on reel; not stretchable; plain; snap-on type	2009-110



Item no.: 2009-115	
WMB-Inline; for Smart Printer; on reel; stretchable 5 - 5.2 mm; plain; snap-on type	2009-115



Item no.: 2009-115/000-002	
WMB-Inline; for Smart Printer; on reel; stretchable 5 - 5.2 mm; plain; snap-on type	2009-115 /000-002

	Item no.: 2009-115/000-006 WMB-Inline; for smartPRINTER; on reel; stretchable 5 - 5.2 mm; plain; snap-on type	/000-006	2009-115
	Item no.: 2009-115/000-007 WMB-Inline; for Smart Printer; on reel; stretchable 5 - 5.2 mm; plain; snap-on type	/000-007	2009-115
	Item no.: 2009-115/000-012 WMB-Inline; for smartPRINTER; on reel; stretchable 5 - 5.2 mm; plain; snap-on type	/000-012	2009-115
	Item no.: 2009-115/000-017 WMB-Inline; for Smart Printer; on reel; stretchable 5 - 5.2 mm; plain; snap-on type	/000-017	2009-115
	Item no.: 2009-115/000-023 WMB-Inline; for Smart Printer; on reel; stretchable 5 - 5.2 mm; plain; snap-on type	/000-023	2009-115
	Item no.: 2009-115/000-024 WMB-Inline; for smartPRINTER; on reel; stretchable 5 - 5.2 mm; plain; snap-on type	/000-024	2009-115
	Item no.: 2009-141 Micro-WSB-Inline; on reel; plain; snap-on type		2009-141
	Item no.: 793-501 WMB marking card; as card; not stretchable; plain; snap-on type		793-501
	Item no.: 793-501/000-002 WMB marking card; as card; not stretchable; plain; snap-on type	/000-002	793-501
	Item no.: 793-501/000-005 WMB marking card; as card; not stretchable; plain; snap-on type	/000-005	793-501
	Item no.: 793-501/000-006 WMB marking card; as card; not stretchable; plain; snap-on type	/000-006	793-501
	Item no.: 793-501/000-007 WMB marking card; as card; not stretchable; plain; snap-on type	/000-007	793-501
	Item no.: 793-501/000-012 WMB marking card; as card; not stretchable; plain; snap-on type	/000-012	793-501
	Item no.: 793-501/000-017 WMB marking card; as card; not stretchable; plain; snap-on type	/000-017	793-501
	Item no.: 793-501/000-023 WMB marking card; as card; not stretchable; plain; snap-on type	/000-023	793-501



Item no.: 793-501/000-024
WMB marking card; as card; not stretchable; plain; snap-on type

/000-024

793-501



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

793-502



Item no.: 793-502/000-002
WMB marking card; as card; MARKED; 1 ... 10 (10x); not stretchable; Horizontal marking; snap-on type

/000-002

793-502



Item no.: 793-502/000-005
WMB marking card; as card; MARKED; 1 ... 10 (10x); not stretchable; Horizontal marking; snap-on type

/000-005

793-502



Item no.: 793-502/000-006
WMB marking card; as card; MARKED; 1 ... 10 (10x); not stretchable; Horizontal marking; snap-on type

/000-006

793-502



Item no.: 793-502/000-007
WMB marking card; as card; MARKED; 1 ... 10 (10x); not stretchable; Horizontal marking; snap-on type

/000-007

793-502



Item no.: 793-502/000-012
WMB marking card; as card; MARKED; 1 ... 10 (10x); not stretchable; Horizontal marking; snap-on type

/000-012

793-502



Item no.: 793-502/000-017
WMB marking card; as card; MARKED; 1 ... 10 (10x); not stretchable; Horizontal marking; snap-on type

/000-017

793-502



Item no.: 793-502/000-023
WMB marking card; as card; MARKED; 1 ... 10 (10x); not stretchable; Horizontal marking; snap-on type

/000-023

793-502



Item no.: 793-502/000-024
WMB marking card; as card; MARKED; 1 ... 10 (10x); not stretchable; Horizontal marking; snap-on type

/000-024

793-502



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

793-503



Item no.: 793-503/000-002
WMB marking card; as card; MARKED; 11 ... 20 (10x); not stretchable; Horizontal marking; snap-on type

/000-002

793-503



Item no.: 793-503/000-005
WMB marking card; as card; MARKED; 11 ... 20 (10x); not stretchable; Horizontal marking; snap-on type

/000-005

793-503



Item no.: 793-503/000-006
WMB marking card; as card; MARKED; 11 ... 20 (10x); not stretchable; Horizontal marking; snap-on type

/000-006

793-503



Item no.: 793-503/000-007
WMB marking card; as card; MARKED; 11 ... 20 (10x); not stretchable; Horizontal marking; snap-on type

/000-007

793-503

**Item no.: 793-503/000-012**

WMB marking card; as card; MARKED; 11 ... 20 (10x); not stretchable; Horizontal marking; snap-on type

/000-012

793-503

**Item no.: 793-503/000-017**

WMB marking card; as card; MARKED; 11 ... 20 (10x); not stretchable; Horizontal marking; snap-on type /000-017

793-503

**Item no.: 793-503/000-023**

WMB marking card; as card; MARKED; 11 ... 20 (10x); not stretchable; Horizontal marking; snap-on type /000-023

793-503

**Item no.: 793-503/000-024**

WMB marking card; as card; MARKED; 11 ... 20 (10x); not stretchable; Horizontal marking; snap-on type /000-024

793-503

**Item no.: 793-504**

WMB marking card; as card; MARKED; 21 ... 30 (10x); not stretchable; Horizontal marking; snap-on type

793-504

**Item no.: 793-504/000-002**

WMB marking card; as card; MARKED; 21 ... 30 (10x); not stretchable; Horizontal marking; snap-on type /000-002

793-504

**Item no.: 793-504/000-005**

WMB marking card; as card; MARKED; 21 ... 30 (10x); not stretchable; Horizontal marking; snap-on type /000-005

793-504

**Item no.: 793-504/000-006**

WMB marking card; as card; MARKED; 21 ... 30 (10x); not stretchable; Horizontal marking; snap-on type /000-006

793-504

**Item no.: 793-504/000-012**

WMB marking card; as card; MARKED; 21 ... 30 (10x); not stretchable; Horizontal marking; snap-on type /000-012

793-504

**Item no.: 793-504/000-017**

WMB marking card; as card; MARKED; 21 ... 30 (10x); not stretchable; Horizontal marking; snap-on type /000-017

793-504

**Item no.: 793-504/000-023**

WMB marking card; as card; MARKED; 21 ... 30 (10x); not stretchable; Horizontal marking; snap-on type /000-023

793-504

**Item no.: 793-505**

WMB marking card; as card; MARKED; 31 ... 40 (10x); not stretchable; Horizontal marking; snap-on type

793-505

**Item no.: 793-505/000-005**

WMB marking card; as card; MARKED; 31 ... 40 (10x); not stretchable; Horizontal marking; snap-on type /000-005

793-505

**Item no.: 793-505/000-006**

WMB marking card; as card; MARKED; 31 ... 40 (10x); not stretchable; Horizontal marking; snap-on type /000-006

793-505

**Item no.: 793-505/000-007**

WMB marking card; as card; MARKED; 31 ... 40 (10x); not stretchable; Horizontal marking; snap-on type /000-007

793-505

**Item no.: 793-505/000-012**

793-505

WMB marking card; as card; MARKED; 31 ... 40 (10x); not stretchable; Horizontal marking; snap-on type /0000-012

**Item no.: 793-506**

793-506

WMB marking card; as card; MARKED; 41 ... 50 (10x); not stretchable; Horizontal marking; snap-on type

**Item no.: 793-506/000-005**

793-506

WMB marking card; as card; MARKED; 41 ... 50 (10x); not stretchable; Horizontal marking; snap-on type /0000-005

**Item no.: 793-506/000-006**

793-506

WMB marking card; as card; MARKED; 41 ... 50 (10x); not stretchable; Horizontal marking; snap-on type /0000-006

**Item no.: 793-506/000-012**

793-506

WMB marking card; as card; MARKED; 41 ... 50 (10x); not stretchable; Horizontal marking; snap-on type /0000-012

**Item no.: 793-506/000-017**

793-506

WMB marking card; as card; MARKED; 41 ... 50 (10x); not stretchable; Horizontal marking; snap-on type /0000-017

**Item no.: 793-5501**

793-5501

WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type

**Item no.: 793-5501/000-002**

793-5501

WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type /0000-002

**Item no.: 793-5501/000-005**

793-5501

WMB marking card; as card; stretchable 5 - 5.2 mm; plain; snap-on type /0000-005

**Item no.: 793-5501/000-006**

793-5501

WMB marking card; as card; stretchable 5 - 5.2 mm; plain; snap-on type /0000-006

**Item no.: 793-5501/000-007**

793-5501

WMB marking card; as card; stretchable 5 - 5.2 mm; plain; snap-on type /0000-007

**Item no.: 793-5501/000-012**

793-5501

WMB marking card; as card; stretchable 5 - 5.2 mm; plain; snap-on type /0000-012

**Item no.: 793-5501/000-014**

793-5501

WMB marking card; as card; stretchable 5 - 5.2 mm; plain; snap-on type /0000-014

**Item no.: 793-5501/000-017**

793-5501

WMB marking card; as card; stretchable 5 - 5.2 mm; plain; snap-on type /0000-017

**Item no.: 793-5501/000-023**

793-5501

WMB marking card; as card; stretchable 5 - 5.2 mm; plain; snap-on type /0000-023

**Item no.: 793-5501/000-024**

WMB marking card; as card; stretchable 5 - 5.2 mm; plain; snap-on type

/000-024

793-5501

**Item no.: 793-566**

WMB marking card; as card; MARKED; 1 ... 50 (2x); not stretchable; Horizontal marking; snap-on type

793-566

**Item no.: 793-566/000-002**

WMB marking card; as card; MARKED; 1 ... 50 (2x); not stretchable; Horizontal marking; snap-on type

/000-002

793-566

**Item no.: 793-566/000-005**

WMB marking card; as card; MARKED; 1 ... 50 (2x); not stretchable; Horizontal marking; snap-on type

/000-005

793-566

**Item no.: 793-566/000-006**

WMB marking card; as card; MARKED; 1 ... 50 (2x); not stretchable; Horizontal marking; snap-on type

/000-006

793-566

**Item no.: 793-566/000-007**

WMB marking card; as card; MARKED; 1 ... 50 (2x); not stretchable; Horizontal marking; snap-on type

/000-007

793-566

**Item no.: 793-566/000-012**

WMB marking card; as card; MARKED; 1 ... 50 (2x); not stretchable; Horizontal marking; snap-on type

/000-012

793-566

**Item no.: 793-566/000-017**

WMB marking card; as card; MARKED; 1 ... 50 (2x); not stretchable; Horizontal marking; snap-on type

/000-017

793-566

**Item no.: 793-566/000-023**

WMB marking card; as card; MARKED; 1 ... 50 (2x); not stretchable; Horizontal marking; snap-on type

/000-023

793-566

**Item no.: 793-566/000-024**

WMB marking card; as card; MARKED; 1 ... 50 (2x); not stretchable; Horizontal marking; snap-on type

/000-024

793-566

assembling**Item no.: 249-116**

Screwless end stop; 6 mm wide; for DIN-rail 35 x 15 and 35 x 7.5

249-116

**Item no.: 249-117**

Screwless end stop; 10 mm wide; for DIN-rail 35 x 15 and 35 x 7.5

249-117

**Item no.: 249-197**

Screwless end stop; 14 mm wide; for DIN-rail 35 x 15 and 35 x 7.5

249-197

check**Item no.: 735-500**

Test pin; 1 mm Ø; with solder connection for test wire

735-500

Jumper**Item no.: 281-482**

Comb-style jumper bar; insulated; 2-way; IN = IN terminal block

281-482

Item no.: 859-402

Push-in type jumper bar; 2-way; Nominal current 18 A; insulated

859-402

**Item no.: 859-402/000-005**

Push-in type jumper bar; 2-way; Nominal current 18 A; insulated

/000-005

859-402

**Item no.: 859-402/000-006**

Push-in type jumper bar; 2-way; Nominal current 18 A; insulated

/000-006

859-402

**Item no.: 859-402/000-029**

Push-in type jumper bar; 2-way; Nominal current 18 A; insulated

/000-029

859-402

tools**Item no.: 210-720**

Operating tool with partially insulated shaft; Type 2, blade (3.5 x 0.5) mm

210-720

General accessories**Item no.: 2857-900**

Configuration display

2857-900

**Item no.: 750-921**

Bluetooth® Adapter

750-921

**Item no.: 750-923**

Configuration cable; USB connector; Length: 2.5 m

750-923

**Item no.: 750-923/000-001**

Configuration cable; USB connector; Length: 5 m

/000-001

750-923

**Item no.: 857-304**

Relay module; Nominal input voltage: 24 VDC; 1 changeover contact; Limiting continuous current: 6 A; Yellow status indicator; Module width: 6 mm

857-304

**Item no.: 857-979**

Supply and through module

857-979

Downloads**Documentation****Bid Text**

2857-533

Grenzwertschalter

Mar 9, 2016

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Instruction Leaflet

JUMPFLEX® Signal Conditioner, RTD Threshold Value Switch

pdf
2.3 MB

Download

Additional Information

Disposal; Electrical and electronic equipment, Packaging



V 1.0.0

pdf
265.8 kB[Download](#)

Engineering-Software

Software for Interface-Products

Interface Configuration Software FULL	1.6.2.11	exe	Download
The full setup, in addition to the WAGO Interface Configuration Software, includes the installation for the Microsoft .NET Framework.	Jan 14, 2019	97.5 MB	

Interface Configuration Software SMALL	1.6.2.11	exe	Download
The full setup only includes the WAGO Interface Configuration Software.	Jan 14, 2019	47.1 MB	

CAD/CAE - Smart Data

CAD data

3D Download 2857-533	URL	Download
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Subject to changes.