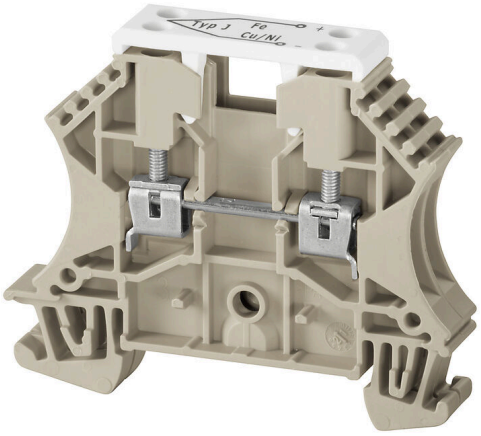
Data sheet

WDU 2.5/TC TYP J

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 26
D-32758 Detmold
Germany

www.weidmueller.com

Product image



Thermocouple Terminal blocks are specially designed for the transmission of very small voltages in temperature measuring circuits. Special current bars ensure that no false signals are transmitted within the terminal block when temperature differences between the positive and negative paths exist. This high measuring precision is required, for example, in aircraft engine test rigs, complicated chemical processes and controllers.

General ordering data

Version	Thermocouple terminal, Screw connection, dark beige, 2.5 mm², 55 V, Number of connections: 2, Number of levels: 1, TS 35, V-0, Wemid
Order No.	1024300000
Type	WDU 2.5/TC TYP J
GTIN (EAN)	4008190030278
Qty.	25 items

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Technical data

Approvals

Approvals	
ROHS	Conform
UL File Number Search	UL Website
Certificate No. (UR)	E60693
Certificate No. (cURusEX)	E184763

Dimensions and weights

Depth	50 mm	Depth (inches)	1.9685 inch
Depth including DIN rail	50.5 mm	Height	60 mm
Height (inches)	2.3622 inch	Width	10.2 mm
Width (inches)	0.4016 inch	Net weight	15.66 g

Temperatures

Storage temperature	-25 °C...55 °C	Ambient temperature	-60 °C...85 °C
Continuous operating temp., min.	-60 °C	Continuous operating temp., max.	130 °C

Environmental Product Compliance

RoHS Compliance Status	Compliant without exemption	
REACH SVHC	No SVHC above 0.1 wt%	
Product Carbon Footprint	Cradle to gate	0,251 kg CO2 eq.

Material data

Basic material	Wemid	Colour	dark beige
UL 94 flammability rating	V-0		

Rating data IECEx/ATEX

Certificate No. (ATEX)	DEMKO14ATEX1338U	Certificate No. (IECEX)	IECEXULD14.0005U
Max. voltage (ATEX)	55 V	Current (ATEX)	8 A
Wire cross section max. (ATEX)	2.5 mm²	Max. voltage (IECEX)	55 V
Current (IECEX)	8 A	Wire cross section max. (IECEX)	2.5 mm²
Marking EN 60079-7	Ex eb II C Gb	Ex 2014/34/EU label	II 2 G D

System specifications

Version	Screw connection, Thermocouple	End cover plate required	Yes
Number of potentials	1	Number of levels	1
Number of clamping points per level	2	Number of potentials per tier	1
Levels cross-connected internally	No	PE connection	No
Mounting rail	TS 35	N-function	No
PE function	No	PEN function	No

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Technical data

Additional technical data

Open sides	right	Number of similar terminals	1
Explosion-tested version	No	Type of mounting	Snap-on

Conductors for clamping (rated connection)

Gauge to IEC 60947-1	A2	Wire connection cross section AWG, max.	AWG 12
Connection direction	on side	Tightening torque, max.	0.6 Nm
Tightening torque, min.	0.4 Nm	Stripping length	10 mm
Type of connection 2	Screw connection	Type of connection	Screw connection
Number of connections	2	Clamping range, max.	2.5 mm²
Clamping range, min.	0.13 mm²	Clamping screw	M 2.5
Blade size	0.6 x 3.5 mm	Wire connection cross section AWG, min.	AWG 26
Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, max.	2.5 mm²	Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, min.	0.13 mm²
Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/1, max.	2.5 mm²	Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/1, min.	0.13 mm²
Wire connection cross section, finely stranded, max.	2.5 mm²	Wire connection cross section, finely stranded, min.	0.13 mm²
Connection cross-section, stranded, max.	2.5 mm²	Connection cross-section, stranded, min.	0.13 mm²
Twin wire-end ferrules, max.	1.5 mm²	Twin wire-end ferrules, min.	0.5 mm²
Torque level with DMS electric screwdriver	1	Wire connection cross-section, solid core, max.	2.5 mm²
Wire connection cross-section, solid core, min.	0.13 mm²		

Dimensions

TS 35 offset	32 mm

General

Wire connection cross section AWG, max.	AWG 12	Wire connection cross section AWG, min.	AWG 26
Standards	IEC 60584, IEC 60947-7-1	Mounting rail	TS 35

Rating data

Rated cross-section	2.5 mm²	Rated voltage	55 V
Standards	IEC 60584, IEC 60947-7-1	Volume resistance according to IEC 60947-7-x	1.33 mΩ
Power loss in accordance with IEC 60947-7-x	0.77 W	Pollution severity	3

UL rating data

Wire cross section min. (UR)	30 AWG	Wire cross section max. (UR)	12 AWG
Voltage size C (UR)	50 V	Certificate No. (UR)	E60693

Classifications

ETIM 8.0	EC000904	ETIM 9.0	EC000904
ETIM 10.0	EC000904	ECLASS 14.0	27-25-01-15

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Technical data

ECLASS 15.0	27-25-01-15

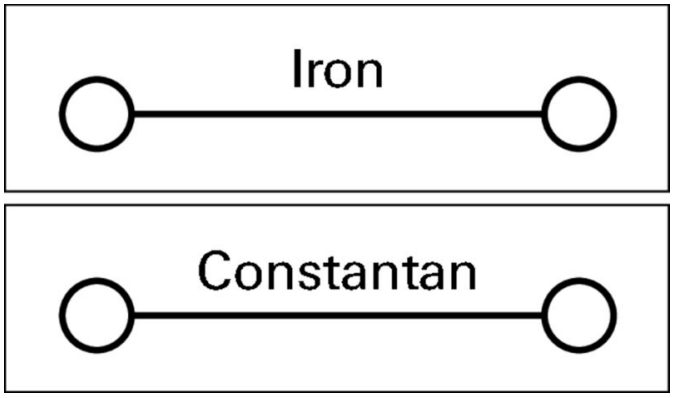
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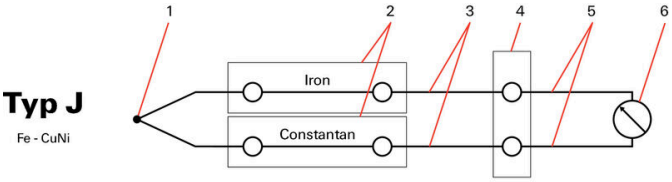
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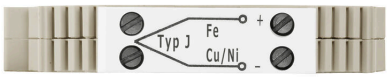
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Drawings





1. Thermocouple (sensor)
2. Thermocouple terminal blocks
3. Compensating conductor
4. Reference junction
5. Supply and return conductors
6. Measurement instrument



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