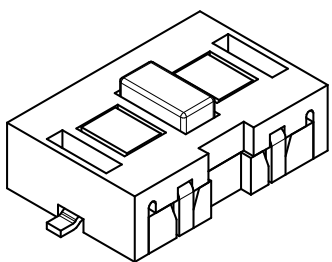
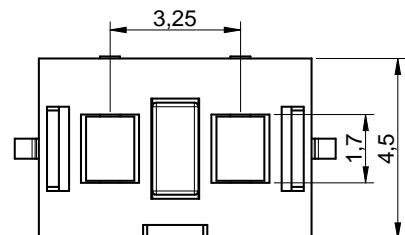
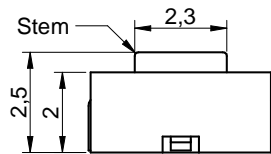
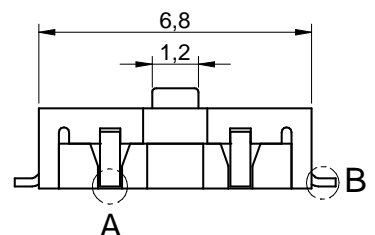
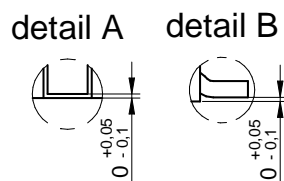
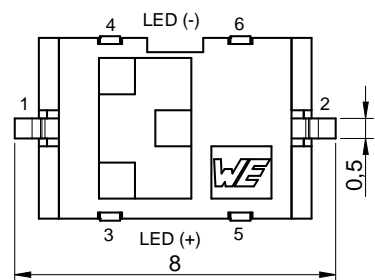
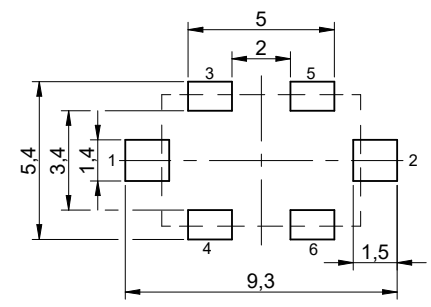


Dimensions: [mm]



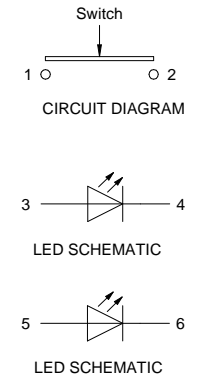
Scale - 5:1

Recommended Hole Pattern: [mm]



Scale - 4:1

Schematic:



	CHECKED	REVISION	DATE (YYYY-MM-DD)	GENERAL TOLERANCE	PROJECTION METHOD		
	JuSa	002.000	2021-10-21	DIN ISO 2768-1m			
	DESCRIPTION WS-TASL Illuminated SMT Tact Switch				ORDER CODE 444BD21025816		
	Würth Elektronik eiSos GmbH & Co. KG EMC & Inductive Solutions Max-Eyth-Str. 1 74638 Waldenburg Germany Tel. +49 (0) 79 42 945 - 0 www.we-online.com eiSos@we-online.com			SIZE/TYPE	BUSINESS UNIT	STATUS	PAGE
6.8 x 4.5 mm		eiCan	Valid	1/8			

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Material Properties:

Cover Material	LCP
Cover Flammability Rating	UL94 V-0
Cover Color	White
Actuator Material	LCP
Actuator Flammability Rating	UL94 V-0
Actuator Color	White
Frame Material	LCP
Frame Flammability Rating	UL94 V-0
Frame Color	White
Contact Material	Stainless Steel
Contact Plating	Silver
Terminal Material	Copper Alloy
Terminal Plating	Silver
LED Terminal Material	Copper Alloy
LED Terminal Plating	Tin
Tape Material	Polyimide

Electrical Properties:

Properties		Test conditions	Value	Unit	Tol.
Rated Current	I_R	12 V (DC)	50	mA	
Contact Resistance Initial	R		100	m Ω	max.
Contact Resistance After Life Test	R		100	m Ω	max.
Insulation Resistance	R_{ISO}	500 V (DC)	100	M Ω	min.
Withstanding Voltage		1 min	250	V (AC)	
Bounce			10	ms	max.

Mechanical Properties:

Properties	Value	Unit	Tol.
Operation Force	160	g	+75g/-30g
Electrical Life ¹⁾	50000	Cycles	
Stroke	0.25	mm	+0.2mm/-0.1mm

¹⁾ Cycle - return to the original position

General Information:


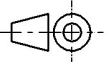

Operating Temperature	-40 up to +85 °C
Storage Conditions (in original packaging)	< 40 °C ; < 90 % RH
Moisture Sensitivity Level (MSL)	3

Optical Properties:

Chip Technology	InGaN
Emitting Color	Blue
Lens Type	Waterclear

Electrical & Optical Properties:

Properties		Test conditions	Value			Unit
			min.	typ.	max.	
Peak Wavelength	λ_{Peak}	20 mA		468		nm
Dominant Wavelength	λ_{Dom}	20 mA		470		nm
Luminous Intensity	I_V	20 mA	20	50		mcd
Forward Voltage	V_F	20 mA		3.2	4	V
Spectral Bandwidth	$\Delta\lambda$	20 mA		21		nm
Reverse Current	I_{REV}	5 V		10		μ A
Viewing Angle Phi 0°	$2\theta_{50\%}$	20 mA		145		°

	CHECKED JuSa	REVISION 002.000	DATE (YYYY-MM-DD) 2021-10-21	GENERAL TOLERANCE DIN ISO 2768-1m	PROJECTION METHOD 		
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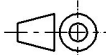

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Absolute Maximum Ratings (Ambient Temperature 25°C):

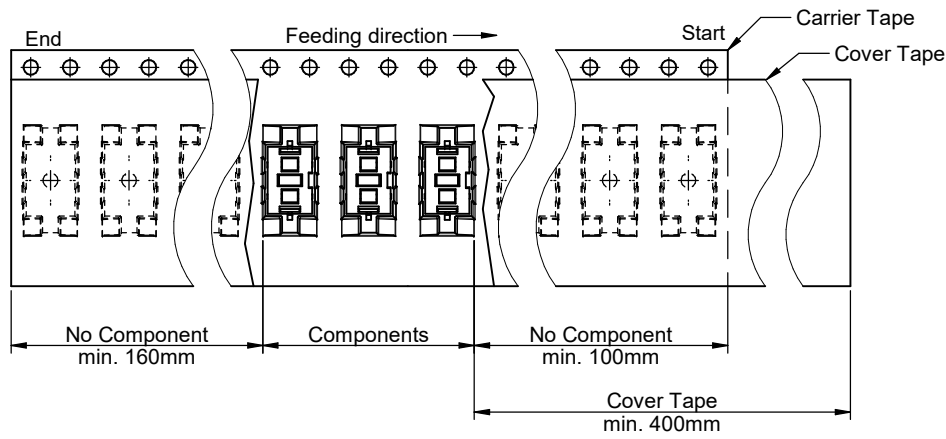
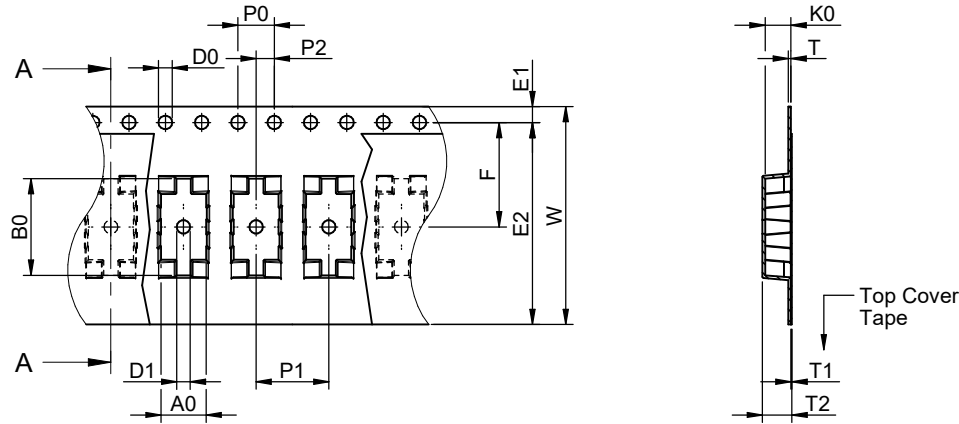
Properties		Test conditions	Value	Unit
Power Dissipation	P_{Diss}		120	mW
Peak Forward Current	$I_{F Peak}$	duty/ 10 @ 1 kHz	100	mA
Continuous Forward Current	I_F		30	mA
Reverse Voltage	V_{REV}		5	V
ESD Threshold/ Human Body Model	$V_{ESD HBM}$		1000	V

Certification:

RoHS Approval	Compliant [2011/65/EU&2015/863]
REACH Approval	Conform or declared [(EC)1907/2006]
Halogen Free	Conform [IEC 61249-2-21]

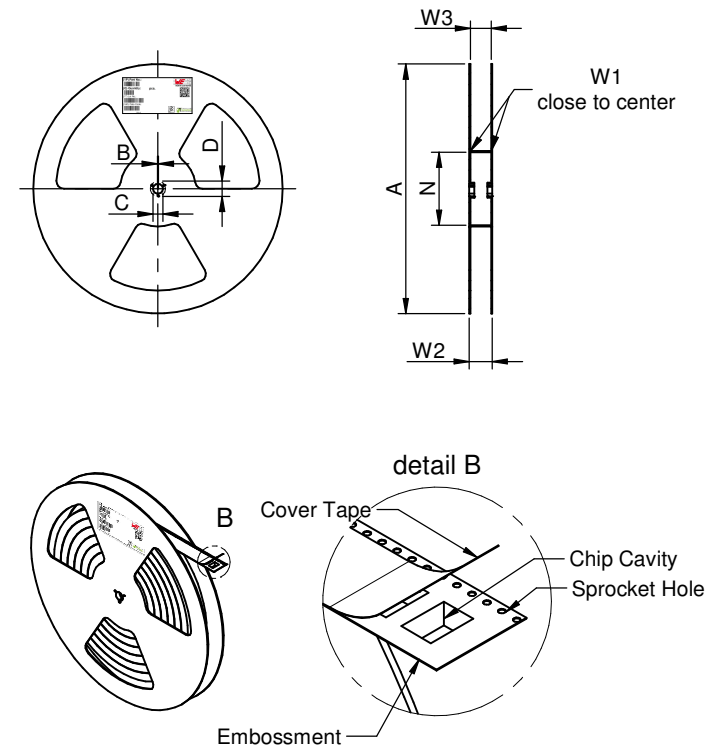
	CHECKED JuSa	REVISION 002.000	DATE (YYYY-MM-DD) 2021-10-21	GENERAL TOLERANCE DIN ISO 2768-1m	PROJECTION METHOD 		
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Packaging Specification - Tape: [mm]



Tape Type	A0 (mm)	B0 (mm)	W (mm)	T (mm)	T1 (mm)	T2 (mm)	K0 (mm)	P0 (mm)	P1 (mm)	P2 (mm)	D0 (mm)	D1 (mm)	E1 (mm)	E2 (mm)	F (mm)	Material	Qty. (pcs.)
	typ.	typ.	±0,3	ref.	max.	typ.	typ.	±0,1	±0,1	±0,1	+0,1/-0,0	min.	±0,1	min.	±0,1	Polystyrene	3000
2a	4,96	10,65	24,00	0,30	0,10	3,25	2,85	4,00	8,00	2,00	1,50	1,50	1,75	22,25	11,50	Polystyrene	3000

Packaging Specification - Reel: [mm]

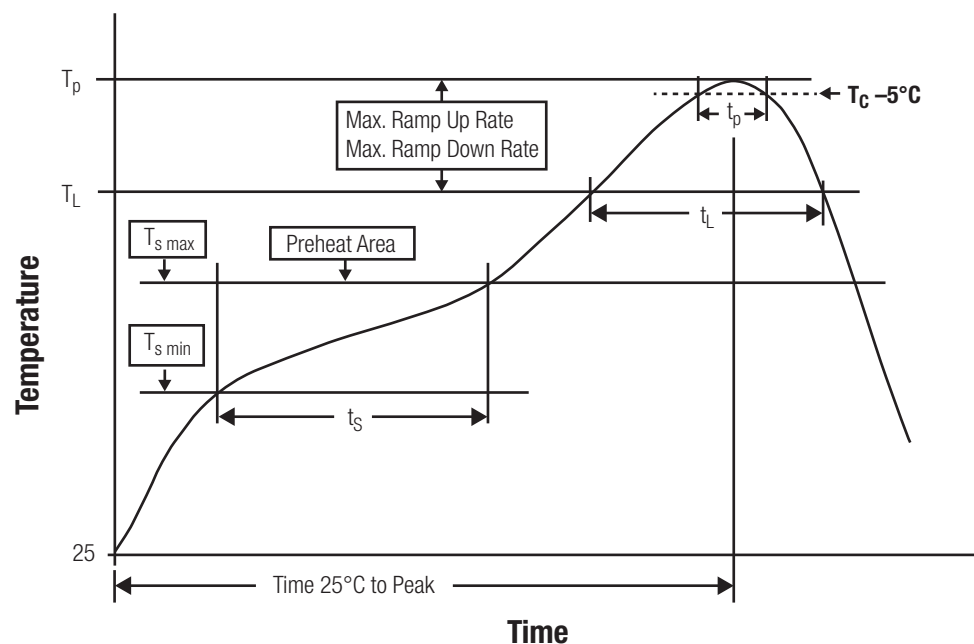


A (mm)	B (mm)	C (mm)	D (mm)	N (mm)	W1 (mm)	W2 (mm)	W3 (mm)	W3 (mm)	Material
± 2,0	min.	min.	min.	± 2,0	+ 2,0	max.	min.	max.	
330,00	1,50	12,80	20,20	60,00	24,40	30,40	23,90	27,40	Polystyrene/ Polyurethane

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	DESCRIPTION			ORDER CODE	
	WS-TASL Illuminated SMT Tact Switch			444BD21025816	
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6.8 x 4.5 mm	eiCan	Valid		4/8	
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Classification Reflow Profile for SMT components:



Classification Reflow Soldering Profile:

Profile Feature		Value
Preheat Temperature Min	$T_{s \text{ min}}$	150 °C
Preheat Temperature Max	$T_{s \text{ max}}$	200 °C
Preheat Time t_s from $T_{s \text{ min}}$ to $T_{s \text{ max}}$	t_s	60 - 120 seconds
Ramp-up Rate (T_L to T_p)		3 °C/ second max.
Liquidous Temperature	T_L	217 °C
Time t_L maintained above T_L	t_L	60 - 150 seconds
Peak package body temperature	T_p	$T_p \leq T_c$, see Table below
Time within 5°C of actual peak temperature	t_p	20 - 30 seconds
Ramp-down Rate (T_p to T_L)		6 °C/ second max.
Time 25°C to peak temperature		8 minutes max.

refer to IPC/ JEDEC J-STD-020E

Package Classification Reflow Temperature (T_c):

Properties	Volume mm ³ <350	Volume mm ³ 350-2000	Volume mm ³ >2000
PB-Free Assembly Package Thickness < 1.6 mm	260 °C	260 °C	260 °C
PB-Free Assembly Package Thickness 1.6 mm - 2.5 mm	260 °C	250 °C	245 °C
PB-Free Assembly Package Thickness > 2.5 mm	250 °C	245 °C	245 °C
Applied cycles	Only 2 times reflow possible.		

refer to IPC/ JEDEC J-STD-020E

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	JuSa	002.000	2021-10-21	DIN ISO 2768-1m	
<p>WÜRTH ELEKTRONIK MORE THAN YOU EXPECT</p> <p>Würth Elektronik eiSos GmbH & Co. KG EMC & Inductive Solutions Max-Eyth-Str. 1 74638 Waldenburg Germany Tel. +49 (0) 79 42 945 - 0 www.we-online.com eiSos@we-online.com</p>	DESCRIPTION			ORDER CODE	
	WS-TASL Illuminated SMT Tact Switch			444BD21025816	
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	6.8 x 4.5 mm	eiCan	Valid	5/8	

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Cautions and Warnings:

The following conditions apply to all goods within the product series of Illuminated switch of Würth Elektronik eiSos GmbH & Co. KG:

General:

- This mechanical component is designed and manufactured for use in general electronic equipment.
- Würth Elektronik must be asked for written approval (following the PPAP procedure) before incorporating the components into any equipment in fields such as military, aerospace, aviation, nuclear control, submarine, transportation (automotive control, train control, ship control), transportation signal, disaster prevention, medical, public information network, etc. where higher safety and reliability are especially required and/or if there is the possibility of direct damage or human injury.
- Mechanical components that will be used in safety-critical or high-reliability applications, should be pre-evaluated by the customer.
- The component is designed and manufactured to be used within the datasheet specified values. If the usage and operation conditions specified in the datasheet are not met, the component may be damaged or dissolved.
- Do not drop or impact the components, the components may be damaged.
- Prevent any damage or scratches on the switch, especially on the actuator.
- Würth Elektronik products are qualified according to international standards, which are listed in each product reliability report. Würth Elektronik does not warrant any customer qualified product characteristics beyond Würth Elektronik's specifications, for its validity and sustainability over time.
- The responsibility for the applicability of the customer specific products and use in a particular customer design is always within the authority of the customer. All technical specifications for standard products also apply to customer specific products.

Product specific:

Soldering:

- The solder profile must comply with the technical product specifications. All other profiles will void the warranty.
- All other soldering methods are at the customers' own risk.
- Please keep our switch at delivery original position before and during the soldering process.
- Design the right angle part with consideration of the wave soldering process so that the parts will not touch the soldering wave during the soldering process or protect the switch part with cover fixture. Melt of the switch might cause malfunction.

Cleaning and Washing:

- If a series is washable, the general information section in the datasheet will contain the washability guidelines. Should there be no information regarding washability, the product has not been constructed to withstand a washing process. Washing agents used during the production to clean the customer application might damage or change the characteristics of the component, body, pins and/or termination. Washing agents may have a negative effect on the long-term functionality of the product.

If the parts are washable, hermetic:

- Cleaning agents used to clean the customers' applications, may damage or change the characteristics of the component, body, pins and termination.
- Please do not immerse any washable products into water or cleaning agents or put them in locations exposed to water completely.
- Do not clean washable series immediately after soldering. The cleaning agent may be absorbed into the switch through respiration while the switch cools.
- Using a brush during the cleaning process could deform function relevant areas. Therefore, we do not recommend using a brush during the PCB cleaning process.

Potting and Coating:

- If the product is potted in the customer application, the potting material might shrink or expand during and after hardening. Shrinking could lead to an incomplete seal, allowing contaminants into the component. Expansion could damage the component. We recommend a manual inspection after potting or coating to avoid these effects.

Storage Conditions:


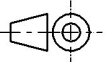

- A storage of Würth Elektronik products for longer than 12 months is not recommended. Within other effects, the terminals may suffer degradation, resulting in bad solderability. Therefore, all products shall be used within the period of 12 months based on the day of shipment.
- Do not expose the components into direct sunlight.
- The storage conditions in the original packaging are defined according to DIN EN 61760-2.
- For a moisture sensitive component, the storage condition in the original packaging is defined according to IPC/JEDEC-J-STD-033. It is also recommended to return the component to the original moisture proof bag and reseal the moisture proof bag again.
- The storage conditions stated in the original packaging apply to the storage time and not to the transportation time of the components.

Packaging:

- The packaging specifications apply only to purchase orders comprising whole packaging units. If the ordered quantity exceeds or is lower than the specified packaging unit, packaging in accordance with the packaging specifications cannot be ensured.

Handling:

- In the case a product requires particular handling precautions in addition to the general recommendations mentioned here below, these will appear on the product datasheet.
- Do not repeatedly operate the switch with excessive force. It may damage or deform the switch and may result in malfunction.
- Violation of the technical product specifications, such as exceeding the nominal rated current, will void the warranty.
- The switch shall be set up in such a way that the actuator will operate in a straight vertical line. A decrease in the lifetime of the switch may result if the actuator is pressed off-center or from an angle. This might cause function errors or broken actuators.

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	SIZE/TYPE 6.8 x 4.5 mm			PAGE 6/8	


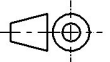

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- In order to avoid malfunction of the switches, stacking of PCB's is not recommended.
- Certain optoelectronic component surfaces consist of soft material. Pressure on the top surface has to be handled carefully to prevent negative influence to the function and reliability of the optoelectronic components.
- ESD prevention methods need to be applied for manual handling and processing by machinery.
- Resistors for protection are obligatory.
- Our caps are designed with notches to avoid the fall out afterwards. The cap shall be vertically downwards inserted in the actuator. By hearing a crispy sound, the cap is latched. If the cap shall be removed, no sharp tools are recommended, since they can damage the switch or the cap.
- The accessory (e.g. cap) is not high temperature resistant material. Please assemble it after the soldering process.
- The temperature rise of the component must be taken into consideration. The operating temperature is comprised of ambient temperature and temperature rise of the component. The operating temperature of the component shall not exceed the maximum temperature specified.

Technical specification:

- The standard deliveries include values in the range and limitation as defined in the Electrical & Optical Properties specified in the datasheet.
- On each reel, only one bin is sorted and taped. The bin is defined on intensity, chromaticity coordinate or wavelength and forward voltage.
- In order to ensure highest availability, the reel binning of standard deliveries can vary. A single bin cannot be ordered. If a particular bin sorting is needed, contact us before placing your order to clarify the lead time, MOQ and pricing.

These cautions and warnings comply with the state of the scientific and technical knowledge and are believed to be accurate and reliable. However, no responsibility is assumed for inaccuracies or incompleteness.

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Important Notes

The following conditions apply to all goods within the product range of Würth Elektronik eiSos GmbH & Co. KG:

1. General Customer Responsibility

Some goods within the product range of Würth Elektronik eiSos GmbH & Co. KG contain statements regarding general suitability for certain application areas. These statements about suitability are based on our knowledge and experience of typical requirements concerning the areas, serve as general guidance and cannot be estimated as binding statements about the suitability for a customer application. The responsibility for the applicability and use in a particular customer design is always solely within the authority of the customer. Due to this fact it is up to the customer to evaluate, where appropriate to investigate and decide whether the device with the specific product characteristics described in the product specification is valid and suitable for the respective customer application or not.

2. Customer Responsibility related to Specific, in particular Safety-Relevant Applications

It has to be clearly pointed out that the possibility of a malfunction of electronic components or failure before the end of the usual lifetime cannot be completely eliminated in the current state of the art, even if the products are operated within the range of the specifications. In certain customer applications requiring a very high level of safety and especially in customer applications in which the malfunction or failure of an electronic component could endanger human life or health it must be ensured by most advanced technological aid of suitable design of the customer application that no injury or damage is caused to third parties in the event of malfunction or failure of an electronic component. Therefore, customer is cautioned to verify that data sheets are current before placing orders. The current data sheets can be downloaded at www.we-online.com.

3. Best Care and Attention

Any product-specific notes, cautions and warnings must be strictly observed. Any disregard will result in the loss of warranty.

4. Customer Support for Product Specifications

Some products within the product range may contain substances which are subject to restrictions in certain jurisdictions in order to serve specific technical requirements. Necessary information is available on request. In this case the field sales engineer or the internal sales person in charge should be contacted who will be happy to support in this matter.

5. Product R&D

Due to constant product improvement product specifications may change from time to time. As a standard reporting procedure of the Product Change Notification (PCN) according to the JEDEC-Standard inform about minor and major changes. In case of further queries regarding the PCN, the field sales engineer or the internal sales person in charge should be contacted. The basic responsibility of the customer as per Section 1 and 2 remains unaffected.

6. Product Life Cycle

Due to technical progress and economical evaluation we also reserve the right to discontinue production and delivery of products. As a standard reporting procedure of the Product Termination Notification (PTN) according to the JEDEC-Standard we will inform at an early stage about inevitable product discontinuance. According to this we cannot guarantee that all products within our product range will always be available. Therefore it needs to be verified with the field sales engineer or the internal sales person in charge about the current product availability expectancy before or when the product for application design-in disposal is considered. The approach named above does not apply in the case of individual agreements deviating from the foregoing for customer-specific products.

7. Property Rights

All the rights for contractual products produced by Würth Elektronik eiSos GmbH & Co. KG on the basis of ideas, development contracts as well as models or templates that are subject to copyright, patent or commercial protection supplied to the customer will remain with Würth Elektronik eiSos GmbH & Co. KG. Würth Elektronik eiSos GmbH & Co. KG does not warrant or represent that any license, either expressed or implied, is granted under any patent right, copyright, mask work right, or other intellectual property right relating to any combination, application, or process in which Würth Elektronik eiSos GmbH & Co. KG components or services are used.

8. General Terms and Conditions

Unless otherwise agreed in individual contracts, all orders are subject to the current version of the "General Terms and Conditions of Würth Elektronik eiSos Group", last version available at www.we-online.com.

	CHECKED JuSa	REVISION 002.000	DATE (YYYY-MM-DD) 2021-10-21	GENERAL TOLERANCE DIN ISO 2768-1m	PROJECTION METHOD 
	DESCRIPTION WS-TASL Illuminated SMT Tact Switch				ORDER CODE 444BD21025816
 WÜRTH ELEKTRONIK MORE THAN YOU EXPECT	Würth Elektronik eiSos GmbH & Co. KG EMC & Inductive Solutions Max-Eyth-Str. 1 74638 Waldenburg Germany Tel. +49 (0) 79 42 945 - 0 www.we-online.com eiSos@we-online.com			BUSINESS UNIT eiCan	STATUS Valid
	SIZE/TYPE 6.8 x 4.5 mm			PAGE 8/8	

This electronic component has been designed and developed for usage in general electronic equipment only. This product is not authorized for use in equipment where a higher safety standard and reliability standard is especially required or where a failure of the product is reasonably expected to cause severe personal injury or death, unless the parties have executed an agreement specifically governing such use. Moreover Würth Elektronik eiSos GmbH & Co KG products are neither designed nor intended for use in areas such as military, aerospace, aviation, nuclear control, submarine, transportation (automotive control, train control, ship control), transportation signal, disaster prevention, medical, public information network etc.. Würth Elektronik eiSos GmbH & Co KG must be informed about the intent of such usage before the design-in stage. In addition, sufficient reliability evaluation checks for safety must be performed on every electronic component which is used in electrical circuits that require high safety and reliability functions or performance.

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