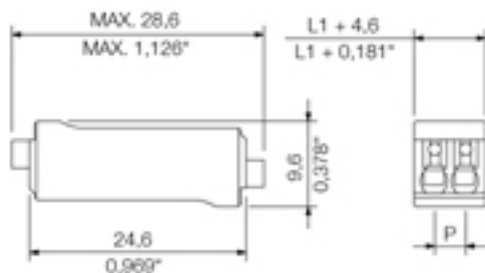


OMNIMATE Signal - series LSF LSF-DK 3.50/02/180 SN BK BX

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 16
D-32758 Detmold
Germany
Fon: +49 5231 14-0
Fax: +49 5231 14-292083
www.weidmueller.com

Dimensional drawing



Similar to illustration

Feed-through terminal with PUSH IN wire connection technology. Conductor inserted and slider operated in same direction (TOP). Packed in box.

- Tool-free installation
- Small compact design

General ordering data

Type	LSF-DK 3.50/02/180 SN BK BX
Order No.	1934660000
Version	Printed circuit board terminals, 3.50 mm, No. of poles: 2, 180°, tinned, black, PUSH IN, Clamping range, max. : 1.5 mm², Box
GTIN (EAN)	4032248591848
Qty.	100 pc(s).
Product data	IEC: 250 V / 17.5 A / 0.2 - 1.5 mm² UL:
Packaging	Box

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Technical data

Dimensions and weights

Width	8.1 mm	Width (inches)	0.319 inch
Height	28.6 mm	Height (inches)	1.126 inch
Height of lowest version	28.6 mm	Depth	9.65 mm
Depth (inches)	0.38 inch	Net weight	2.8 g

System parameters

Product family	OMNIMATE Signal - series LSF	Wire connection method	PUSH IN
Conductor outlet direction	180°	Pitch in mm (P)	3.5 mm
Pitch in inches (P)	0.138 inch	No. of poles	2
Fitted by customer	No	Number of solder pins per pole	2
Stripping length	8 mm	L1 in mm	3.5 mm
L1 in inches	0.138 inch	Touch-safe protection acc. to DIN VDE 0470	IP 20
Touch-safe protection acc. to DIN VDE 57 106	Safe from finger touch	Volume resistance	1.60 mΩ

Material data

Insulating material	LCP GF	Colour	black
Colour chart (similar)	RAL 9011	Insulating material group	IIIa
CTI	≥ 175	Insulation strength	≥ 10 ⁸ Ω
Moisture Level (MSL)	1	UL 94 flammability rating	V-0
Contact material	Copper alloy	Contact surface	tinned
Storage temperature, min.	-25 °C	Storage temperature, max.	55 °C
Max. relative humidity during storage	80 %	Operating temperature, min.	-50 °C
Operating temperature, max.	120 °C	Temperature range, installation, min.	-25 °C
Temperature range, installation, max.	120 °C		

Conductors suitable for connection

Clamping range, min.	0.13 mm ²	Clamping range, max.	1.5 mm ²
Wire connection cross section AWG, min.	AWG 24	Wire connection cross section AWG, max.	AWG 16
Solid, min. H05(07) V-U	0.2 mm ²	Solid, max. H05(07) V-U	1.5 mm ²
Flexible, min. H05(07) V-K	0.2 mm ²	Flexible, max. H05(07) V-K	1.5 mm ²
w. plastic collar ferrule, DIN 46228 pt 4, min.	0.25 mm ²	w. plastic collar ferrule, DIN 46228 pt 4, max.	0.75 mm ²
w. wire end ferrule, DIN 46228 pt 1, min.	0.25 mm ²	w. wire end ferrule, DIN 46228 pt 1, max.	1.5 mm ²
Max. clamping range	1.5 mm ²		

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Technical data
Rated data acc. to IEC

tested acc. to standard	IEC 60664-1, IEC 61984	Rated current, min. no. of poles (Tu=20°C)	17.5 A
Rated current, max. no. of poles (Tu=20°C)	17.5 A	Rated current, min. no. of poles (Tu=40°C)	17.5 A
Rated current, max. no. of poles (Tu=40°C)	17.5 A	Rated voltage for surge voltage class / pollution degree II/2	250 V
Rated voltage for surge voltage class / pollution degree III/2	160 V	Rated voltage for surge voltage class / pollution degree III/3	160 V
Rated impulse voltage for surge voltage class/ pollution degree II/2	2.5 kV	Rated impulse voltage for surge voltage class/ pollution degree III/2	2.5 kV
Rated impulse voltage for surge voltage class/ contamination degree III/3	2.5 kV	Short-time withstand current resistance	3 x 1s with 77 A

Packing

Packaging	Box	VPE length	60 mm
VPE width	100 mm	VPE height	110 mm

Classifications

ETIM 3.0	EC001284	ETIM 4.0	EC002643
ETIM 5.0	EC002643	ETIM 6.0	EC002643
UNSPSC	30-21-18-01	eClass 6.2	27-26-11-01
eClass 7.1	27-44-04-01	eClass 8.1	27-44-04-01
eClass 9.0	27-44-04-01	eClass 9.1	27-44-04-01

Notes

Notes	• Additional push button colours on request • Rated current related to rated cross-section & min. No. of poles. • Wire end ferrule without plastic collar to DIN 46228/1 • P on drawing = pitch • Operating force of slider max. 40 N • Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards. • Crimping shape "A" for wire end ferrules with PZ 6/5 crimping tool are recommended for the largest cable sizes.
IPC conformity	Conformity: The products are developed, manufactured and delivered according international recognized standards and norms and comply with the assured properties in the data sheet resp. fulfill decorative properties in accordance with IPC-A-610 "Class 2". Further claims on the products can be evaluated on request.

Approvals

Approvals



ROHS

Conform

OMNIMATE Signal - series LSF LSF-DK 3.50/02/180 SN BK BX

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Technical data

Downloads

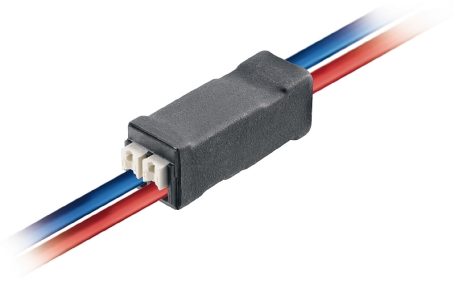
Approval/Certificate/Document of Conformity	Declaration of the Manufacturer
Brochure/Catalogue	FL DRIVES EN FL ANALO.SIGN.CONV. EN MB DEVICE MANUF. EN FL DRIVES DE FL BUILDING SAFETY EN FL APPL LED LIGHTING EN FL INDUSTR.CONTROLS EN FL MACHINE SAFETY EN FL HEATING ELECTR EN FL APPL INVERTER EN FL BASE STATION EN FL ELEVATOR EN FL POWER SUPPLY EN FL 72H SAMPLE SER EN PO OMNIMATE EN
Engineering Data	WSCAD
Engineering Data	STEP

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Drawings

Example of use



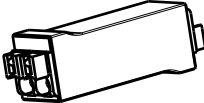
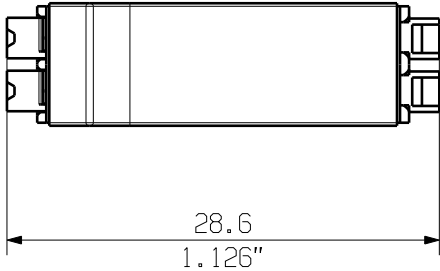
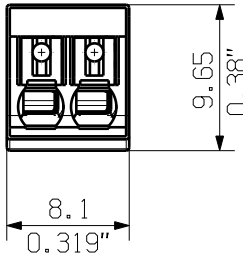
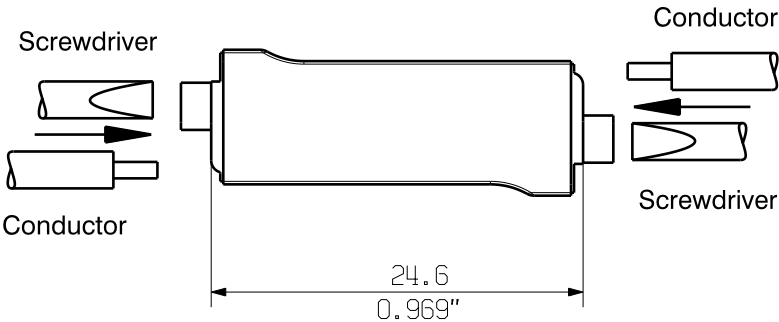
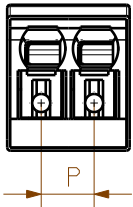
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MASSE OHNE TOLERANZ SIND KEINE PRUEFMASSE
DIMS. WITHOUT TOLERANCE ARE NOT CONTROL DIMS.

DIE DEUTSCHE VERSION IST VERBINDLICH
THE GERMAN VERSION IS BINDING

Technical Data

Rev.		Material data	
		Insulation material type	LCP, halogen -free
		Insulation material colours	black
		Insulation material flammability class	UL94
		Insulation resistance	MOhm
		Conatct base material	Copper-alloy
		Contact plating	tin-plated
		System characteristic values	
		Pitch P	mm/inch
		Number of rows	1
		Dielectric strength (r.m.s withstand voltage)	kV
		Through resistance (typical)	mOhm
		Operating temperature range	°C
		Degree of protection acc. to VDE 0140-1	finger safe
		Degree of protection acc. to DIN EN 60529	IP20
		Conductor connection method	tension clamp
		Screw size	n.a.
		Screw torque max. acc. to EN 60999-1	Nm
		Screw driver type	SD 0.6x3.5
		Solder pin length L	mm/inch
		PCB hole diameter D (wave soldering)	mm/inch
		PCB hole diameter D (reflow soldering)	mm/inch
		Resistance to soldering heat acc. to DIN IEC 60512-6	°C/sec
		Resistance to soldering heat acc. to EN 61760-1	°C/sec
		Solderability classification acc. to EN 61760-1	n.a.
		Solder connection type	n.a.
		Solder pin diameter d (max.)	mm/inch
		Application notes	
		Coding possibility	yes/no
		Joinable without loss of pitch	yes/no
		Manual assembly of modules	yes/no
		Max. number of poles	n
		Conductor	
		Clamping range	mm ²
		"e" solid H05(07) V-U	mm ²
		"f" flexible H05(07) V-K	mm ²
		"f" with ferrule acc. to DIN 46228/1	mm ²
		... with plastic collar acc. to DIN 46228/4	mm ²
		Conductor insulation stripping length	mm/inch
		Conductor insulation diameter max.	mm/inch
		Two wire clamping range	mm ²
		Gauge to EN 60999-1 (a x b ; Ø)	mm
		IEC 60664-1 / VDE0110 (4.97) rated data	
		Rated cross section acc. to EN 60999	mm ²
		Rated current @ 20°C ambient	A
		Rated current @ 40°C ambient	A
		Overvoltage category / Pollution degree	III/3 III/2 II/2
		Rated voltage	V
		Rated impulse voltage	kV
		UL 1059 rated data	C US File No.: xxxxx
		Rated voltage	300
		Rated current	12
		AWG wire range (field wiring / factory wiring)	26...14
		Packaging	
		Box	
		Downloads	
		1) Sum of ambient temperature and temperature rise	
		2) Recommendation for manual assembly	
		3) Recommendation for automatic assembly	
		4) Recommendation for wave soldering	
		5) Recommendation for reflow soldering	
		6) Referred to rated cross section and minimum pole number	
		7) Referred to Rated Cross-Section	
		*factory wiring	
		n.a. = not applicable	
		Subject to technical changes	



M 1:1

				CAT.NO.: .	
38015/5 10.08.07 KRUG_M		00	Weidmüller		C 39813
MODIFICATION				DRAWING NO.	ISSUE NO.
				SHEET 2	OF 2 SHEETS
SCALE: 2:1		DATE	NAME	LSF DK 3.5/2/180 LEITERPLATTENKLEMME PCB TERMINAL	
SUPERSEDES: .		DRAWN	KRUG_M		
SUPERSEDED BY: .		CHECKED	HECKERT_M		
		APPROVED	HECKERT_M	PRODUCT FILE: LSF-SMT	
				7358	