

LSF-DK 3.50/02/180 SN BK BX

Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com



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

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

Erstellungs-Datum May 25, 2023 1:09:06 PM CEST

LSF-DK 3.50/02/180 SN BK BX

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

www.weidmueller.com

Technische Daten

Dimensions and weights

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

Temperatures

Operating temperature, min.	-50 °C	Operating temperature, max.	120 °C
-----------------------------	--------	-----------------------------	--------

System parameters

Product family	OMNIMATE Signal - series LSF	Wire connection method	PUSH IN with actuator
Conductor outlet direction	180°	Pitch in mm (P)	3.5 mm
Pitch in inches (P)	0.138 inch	Number of poles	2
Pin series quantity	1	Fitted by customer	No
Number of rows	1	Solder pin dimensions	0.75 x 0.9 mm
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
Protection degree	IP20	Volume resistance	1.60 mΩ

Material data

Insulating material	LCP GF	Colour	black
Colour chart (similar)	RAL 9011	Insulating material group	IIIa
Comparative Tracking Index (CTI)	≥ 175	Moisture Level (MSL)	1
UL 94 flammability rating	V-0	Contact material	Copper alloy
Contact surface	tinned	Storage temperature, min.	-40 °C
Storage temperature, max.	70 °C	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
Reference text	Length of ferrules is to be chosen depending on the product and the rated voltage., The outside diameter of the plastic collar should not be larger than the pitch (P)		

LSF-DK 3.50/02/180 SN BK BX

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

www.weidmueller.com

Technische Daten

Rated data acc. to IEC

tested acc. to standard	IEC 60664-1, IEC 61984	Rated current, min. number of poles (Tu=20°C)	17.5 A
Rated current, max. number of poles (Tu=20°C)	17.5 A	Rated current, min. number of poles (Tu=40°C)	17.5 A
Rated current, max. number 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 6.0	EC002643	ETIM 7.0	EC002643
ETIM 8.0	EC002643	ECLASS 9.0	27-44-04-01
ECLASS 9.1	27-44-04-01	ECLASS 10.0	27-44-04-01
ECLASS 11.0	27-46-01-01	ECLASS 12.0	27-46-01-01

Important note

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.

- 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 recommended.
 - Long term storage of the product with average temperature of 50 °C and average humidity 70%, 36 months

Approvals

Approvals



ROHS

Conform

Erstellungs-Datum May 25, 2023 1:09:06 PM CEST

Katalogstand 12.05.2023 / Technische Änderungen vorbehalten

LSF-DK 3.50/02/180 SN BK BX

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

www.weidmueller.com

Technische Daten

Downloads

Engineering Data	CAD data – STEP
Engineering Data	WSCAD
Catalogues	Catalogues in PDF-format
Brochures	FL DRIVES EN FL ANALO.SIGN.CONV. EN MB DEVICE MANUF. EN FL DRIVES DE FL BUILDING SAFETY EN FL APPL LED LIGHTING EN FLIndustr.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

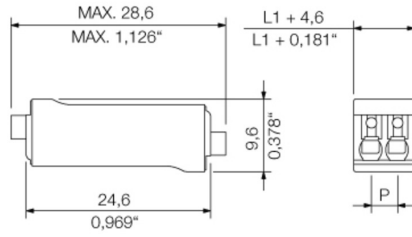
LSF-DK 3.50/02/180 SN BK BX

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

www.weidmueller.com

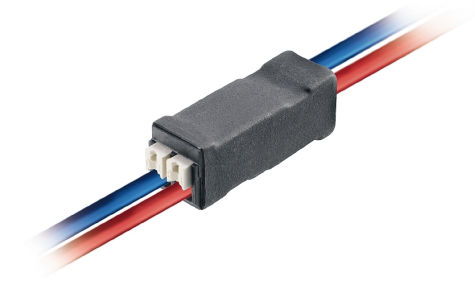
Zeichnungen

Dimensional drawing



Similar to illustration


Example of use

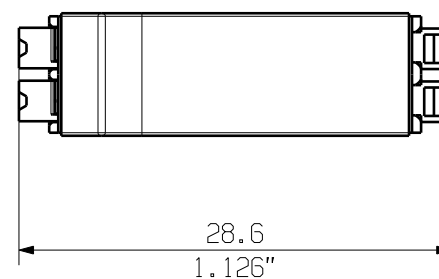
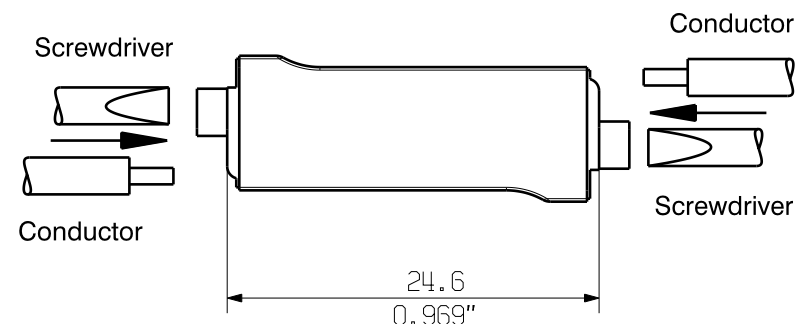
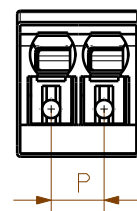


MASSE OHNE TOLERANZ SIND KEINE PRUEFMASSE
 DIMS. WITHOUT TOLERANCE ARE NOT CONTROL DIMS.


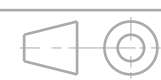
DIE DEUTSCHE VERSION IST VERBINDLICH
 THE GERMAN VERSION IS BINDING

Technical Data

Rev.	Material data			
	Insulation material type	LCP, halogen -free		
	Insulation material colours	black		
	Insulation material flammability class	UL94 V-0		
	Insulation resistance	MOhm 10 ⁶		
	Conatct base material	Copper-alloy		
	Contact plating	tin-plated		
	System characteristic values			
	Pitch P	mm/inch 3.5/0.138		
	Number of rows	1		
	Dielectric strength (r.m.s withstand voltage)	kV ≥2.21		
	Through resistance (typical)	mOhm <3		
	Operating temperature range	°C 120		
	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 n.a.		
	Screw driver type	SD 0.6x3.5		
	Solder pin length L	mm/inch n.a.		
	PCB hole diameter D (wave soldering)	mm/inch n.a.		
	PCB hole diameter D (reflow soldering)	mm/inch n.a.		
	Resistance to soldering heat acc. to DIN IEC 60512-6	°C/sec n.a.		
	Resistance to soldering heat acc. to EN 61760-1	°C/sec n.a.		
	Solderability classification acc. to EN 61760-1	n.a.		
	Solder connection type	n.a.		
	Solder pin diameter d (max.)	mm/inch n.a.		
	Application notes			
	Coding possibility	yes/no no		
	Joinable without loss of pitch	yes/no no		
	Manual assembly of modules	yes/no n.a.		
	Max. number of poles	n 2		
	Conductor			
	Clamping range	mm ² 0.14...1.5		
	"e" solid H05(07) V-U	mm ² 0.5...1.5		
	"f" flexible H05(07) V-K	mm ² 0.5...1.5		
	"f" with ferrule acc. to DIN 46228/1	mm ² 0.25...1.5		
	... with plastic collar acc. to DIN 46228/4	mm ² 0.25...0.75		
	Conductor insulation stripping length	mm/inch 8mm +1		
	Conductor insulation diameter max.	mm/inch max 2.9/1.14		
	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 1.5		
	Rated current @ 20°C ambient	A 17.5		
	Rated current @ 40°C ambient	A 17.5		
	Overvoltage category / Pollution degree			
		III/3	III/2	II/2
	Rated voltage	V 160	160	250
	Rated impulse voltage	kV 2.5	2.5	2.5
	UL 1059 rated data		C  US File No.: xxxxx	
	Rated voltage	300	50*	
	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	www.weidmueller.de		
	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 	
MODIFICATION		DRAWING NO. C 39813 ISSUE NO. 01	
		SHEET 2 OF 2 SHEETS	
		DATE	NAME
SCALE: 2:1	DRAWN	09.08.2007	KRUG_M
SUPERSEDES:	RESPONSIBLE		KRUG_M
SUPERSEDED BY: .	CHECKED	10.08.2007	HECKERT_M
	APPROVED		HECKERT_M
		PRODUCT FILE: LSF-SMT	
		7358	

LSF DK 3.5/2/180
 LEITERPLATTENKLEMME
 PCB TERMINAL

WEITERGABE SOWIE Vervielfältigung dieses Dokuments, Verwertung und Mitteilung seines Inhalts sind verboten, soweit nicht ausdrücklich gestattet.
 ZUWIDERHANDLUNGEN VERPFLICHTEN ZU SCHADENSATZ. ALLE RECHTE FUER DEN FALL DER PATENT-, GEBRAUCHSMUSTER- ODER GESCHMACKSMUSTERINTEGRATION VORBEHALTEN.
 THE REPRODUCTION, DISTRIBUTION AND UTILIZATION OF THIS DOCUMENT AS WELL AS THE COMMUNICATION OF ITS CONTENTS TO OTHERS WITHOUT EXPLICIT AUTHORIZATION IS PROHIBITED.
 OFFENDERS WILL BE HELD LIABLE FOR THE PAYMENT OF DAMAGES. ALL RIGHTS RESERVED IN THE EVENT OF A PATENT, UTILITY MODEL OR DESIGN.