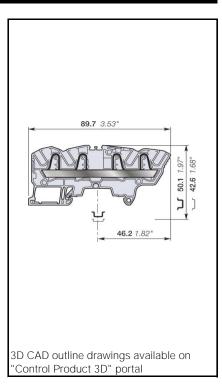
Technical Datasheet 1SNK162027D0201 Catalogue Page 1SNK162028S0201

# ZK4-4P PI-Spring Terminal Blocks Feed-through with 4 connections

Find all the features of the ZK4 terminal block with the added option of distributing or branching 4 conductors.





00**00	PI-Spring Terminal Blocks	4 mm²
00-00	Terminal Blocks	10 AWG
6 mm	0.236 in	Spacing

Ordering Details

Color	Type	Order Code	EAN Code	Pack <sup>(ing)</sup>	Weight
					(1 pce) g
Grey	ZK4-4P	1SNK706012R0000	3472597060120	50	13.8
Blue	ZK4-4P-BL	1SNK706022R0000	3472597060229	50	13.8
Orange	ZK4-4P-OR	1SNK706032R0000	3472597060328	50	13.8

#### **Declarations and Certificates**

<b>C€</b> CE	CB	RoHS RoHS	c <b>SL</b> us USR CNR	<b>(F)</b>	Gost R	€x ATEX	IECEx IECEx	
		BV			ATEX Declaration			

CB 1SND162016A02*  RoHs RoHs 1SND230535F02*  USR CNR 1SND162014A02*  CSA 1SND162014A02*  CSA 1SND162014A02*  CSA 1SND162009A11*  TSND162009A17*  ECEX 1SND162010A17*  BY BV 1SND162013A02*  Explosive Atmosphere: ATEX Classification  Group Category Protection Method  IM2 II 2 GD Ex eb I/IIC/IIIC Ex e: increased security  In the presence of explosive dust atmosphere, terminal blocks are to be installed in certified enclosure II 2D  Seneral Information  The following information must be strictly adhered to in order to guarantee the terminal block electrical, mechanical and environmental performance. Protection IEC 60947-1 IP20   NEMA250    Screw clamp   Screw rall contact (Maximum value)   Disconnect device	<b>Declarations and Ce</b>											
SCHEMBERS   SCHE	CE CE	CE										
USR CNR 1SND162017402	CB											
CSA   1SND162014A02*   CSA   1SND162014A02*   CSST R   1SND161005A11*   CSST R   1SND162005A11*   CSST R   1SND162005A11*   CSST R   1SND162005A11*   CSST R   1SND162010A1*   CSST   1SND162010	RoHS		ND									
GOST R  ATEX  ATEX  ATEX  ISND162003A17*  IECEX  ISND162010A17*  ATEX 1SND162010A17*  ATEX 1SND162010A17*  ATEX 1SND162010A17*  ISND162010A02*  ATEX 1SND162010A02*  ATEX 1SND162010A02*  ATEX 1SND162010A02*  ATEX 1SND162010A02*  ATEX 1SND162010A02*  ATEX 1SND162010A02*  Protection ISND225085C10*  Explosive Atmosphere: ATEX Classification  Group Category  Protection Method  Ex e: increased security  In the presence of explosive dust atmosphere, terminal blocks are to be installed in certified enclosure IF 2D  General Information  In the presence of explosive dust atmosphere, terminal blocks are to be installed in certified enclosure IF 2D  General Information  In the presence of explosive dust atmosphere, terminal block electrical, mechanical and environmental performance. Protection  In the presence of explosive dust atmosphere, terminal block electrical, mechanical and environmental performance. Protection  In the presence of explosive dust atmosphere, terminal block electrical, mechanical and environmental performance. Protection  In the presence of explosive dust atmosphere, terminal block electrical, mechanical and environmental performance. Protection  In the presence of explosive dust atmosphere, terminal block electrical, mechanical and environmental performance. Protection  In the presence of explosive dust atmosphere, terminal block electrical, mechanical and environmental performance. Protection (Maximum value)  If the strength protection (Maximum value)  If a screwdriver  In the presence of explosive dust atmosphere, terminal block electrical, mechanical and environmental performance. Protection (Maximum value)  If explosing interest and in creek to guitable and environmental performance. Protection (Maximum value)  In the protection of	USR CNR	USRC	INK					ISINL	710201	2AU2		
ATEX 1SND161005A11*  ATEX 1SND162009A17*  IECEX 1SND162010A17*  BW 1SND162010A17*  Atex Declaration Atex Declaration 1SND25085C10*  Explosive Atmosphere: ATEX Classification Group Category Protection Method  Ex e: increased security In the presence of explosive dust atmosphere, terminal blocks are to be installed in certified enclosure IE 2D  Seneral Information  The following information must be strictly adhered to increase to guarantee the terminal block decitical, mechanical and environmental performance. Protection IEC 60947-1 P20   NPMA/250    Th 35-7.5.   Int 35-7	<b>@</b>	CSA						1SNE	016201	4A02*		
ATEX 1SND1620109A17*    BV			R									
Alex Declaration Alex Declaration 1SND225085C10*    Explosive Atmosphere: ATEX Classification   Group Category   Protection Method   Fix et: Increased security	€x ATEX											
Atex Declaration Atex Declaration 1SND225085C10*  Explosive Atmosphere: ATEX Classification Group Category Protection Method In the presence of explosive dust atmosphere, terminal blocks are to be installed in certified enclosure II 2D  Seneral Information The following information must be strictly athered to in order to quarantee the terminal block electrical, mechanical and environmental performance. Protection IEC 60947-1 IPC NEMAZSO NEMAZ		IECEx						1SNE	016201	0A17*		
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Explosive Atmosphere: ATEX Classification  Group Category   Protection Method   Ex e: increased security   In the presence of explosive dust atmosphere, terminal blocks are to be installed in certified enclosure II 2D  General Information  The following information must be shictly adhered to in order to guarantee the terminal block electrical, mechanical and environmental performance. Protection   IEC 60947-1   IP20   NEMA250   Sati   IT 35-7.5, TH 35-15.   Wire stripping length   IZ.5 mm   0.492 in    Screw clamp   Screw rail contact (Maximum value)   Disconnect device   Disconn												
Explosive Almosphere: ATEX Classification  Group Category   Protection Method   Ex e: increased security   In the presence of explosive dust atmosphere, terminal blocks are to be installed in certified enclosure II 2D  General Information  The following information must be strictly adhered to in order to guarantee the terminal block electrical, mechanical and environmental performance. Protection   IEC 60947-1   IP20   NEMA250   NEMA250   Thi 35-15, Thi 35-1	Atox Doplaration	Atox D	aalaratian					ICNIE	222500	FC10*		
Protection Method   Ex.e. increased security   In the presence of explosive dust atmosphere, terminal blocks are to be installed in certified enclosure II 2D	Alex Deciaration	1 Alex D	eciaration	1				ISIVL	)22508	5010		
Protection Method   Ex e: Increased security   Ex e: Increased security	Explosive Atmos	sphere: ATE)	< Classifi	cation								
In the presence of explosive dust atmosphere, terminal blocks are to be installed in certified enclosure II 2D    Semeral Information						Protectio	n Method					
In the presence of explosive dust atmosphere, terminal blocks are to be installed in certified enclosure II 2D  Seneral Information  he following information must be strictly adhered to in order to guarantee the terminal block electrical, mechanical and environmental performance.  Protection IEC 60947-1 IP20 NEMA250  TH 35-7.5. TH 35-7.5. TH 35-15. TH 35	IM2 II 2 GD Fx eh I/II0	C/IIIC				Ex e: inc	reased security	v				
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he following information must be strictly adhered to in order to guarantee the terminal block electrical, mechanical and environmental performance.  Protection    IEC 60947-7   IP20   NEMA250	in the presence of exp	piosive dust atm	ospnere, te	rminai blocks are	to be	installed	in certified end	losure	e II 2D			
The following information must be strictly adhered to in order to guarantee the terminal block electrical, mechanical and environmental performance.  Protection  IEC 60947-1 IP20  NEMAZSD  TH 35-15  TH 35-15  TH 35-15  Mire stripping length  Screw clamp  Screw rall contact (Maximum value)  Deparating tool  Flat screwdriver  3.5 mm  0.138 in  Deparating material  The screwdriver  Strew rall contact (Maximum value)  Deparating tool  Flat screwdriver  Norque  Polyamide  600 V  The screwdriver  Strew rall contact (Maximum value)  Deparating tool  Flat screwdriver  Norque  Polyamide  600 V  The screwdriver  Strew rall contact (Maximum value)  Deparating tool  Flat screwdriver  Norque  Polyamide  600 V  The screwdriver  Strew rall contact (Maximum value)  Disconnect device  Maximum value)  Polyamide  600 V  The screwdriver  Norque  Norque  Polyamide  600 V  The screwdriver  Norque  Norque  Norque  Polyamide  600 V  The screwdriver  Norque  Norque	General Information											
TH 35-7.5, TH 35-15 Wire stripping length  Screw clamp  Screw rall contact (Maximum value)  Disconnect device  (Maximum value)  Screw rall contact (Maximum value)  Disconnect device  Disconnect device  (Maximum value)  Disconnect device  Disconnect device  And Value  Disconnect device  And Value  Disconnect device  Disconn			d to in order to	guarantee the term	ninal bl	ock electric	al, mechanical a	nd env	ironmenta	l performan	ce.	
Waterial Specifications Insulating material In	Protection	IEC 60947-1	IP20	NEMA250								
Screw clamp   Screw rall contact (Maximum value)   Disconnect device	Rail	7										
Screw clamp Screw rall contact (Maximum value)  Disconnect device    Disconnect device	Mina atrianina lanath			0.402.5-						1		
Flat screwdriver	wire stripping length		12.5 mm	0.492 IN								
Flat screwdriver			Screw clar	mp	Scre	ew rail cor	ntact	Disc	onnect d	evice		
Solid   Stranded conductor   Solid   Stranded conductor   Solid   Stranded conductor with non												
Material Specifications   Polyamide	Operating tool		Flat screw	driver								
Material Specifications   Polyamide   CTI   600 V			3.5 mm	0.138 in								
Material Specifications   Polyamide   CTI   600 V	Foralle											
Polyamide   Poly	rorque											
Polyamide   Poly										1		
Connecting capacity per clamp		ons										
Needle flame test C 60615-11-5   Compliant										de		
NF F 16101   I2F2    Needle flame test C 60615-11-5   Compliant    Connecting capacity per clamp												
Needle flame test C 60615-11-5 Compliant    Connecting capacity per clamp	lammability		-									
PI Spring  Rigid - Solid / Stranded conductor  Rigid - Solid / Stranded conductor  Rigid - Solid / Stranded conductor  Value  Norme  IEC60947-7-1  Value  0.5 6 mm²  26 10 AWG  Flexible conductor with non  Norme  Manufacturer data  Manufacturer data  Manufacturer data  Manufacturer data  Flexible conductor with insulated  PI Spring  Value  0.5 6 mm²  Value  0.5 4 mm²  26 12 AWG  Flexible conductor with insulated  PI Spring  Value  0.5 4 mm²  26 12 AWG  Manufacturer data  Flexible conductor with insulated  PI Spring  Value  0.5 4 mm²  26 12 AWG  PI Spring  Norme  Manufacturer data  Manufacturer data  Manufacturer data  Manufacturer data  PI Spring  Norme  Manufacturer data  Manufacturer data  PI Spring  Norme  Manufacturer data  Manufacturer data  Manufacturer data  Manufacturer data  Manufacturer data  PI AWA  Manufacturer data  F 35 mm			_				INFFI	6101	12F2			
Connecting capacity per clamp  Rigid - Solid / Stranded conductor  Rigid - Solid / Stranded conductor  Value  Norme  IEC60947-7-1  Value  0.5 6 mm²  26 10 AWG  Flexible conductor with non  Norme  Manufacturer data  Manufacturer data  Manufacturer data  Manufacturer data  Flexible conductor with insulated  PI Spring  Value  0.5 6 mm²  Value  0.5 4 mm²  26 12 AWG  Flexible conductor with insulated  PI Spring  Value  0.5 4 mm²  26 12 AWG  Manufacturer data  Ferrule  Value  0.5 4 mm²  26 12 AWG  Manufacturer data  Ferrule  Value  O.5 4 mm²  26 12 AWG  According to the service of the service data  Norme  IEC 60947-1  Ferrule maximum outer diameter or conductor			_		Ne	edle flame	e test C 60615	-11-5	Complia	nt		
Rigid - Solid / Stranded conductor   Norme   IEC60947-7-1   UL1059     Value   0.5 6 mm²   26 10 AWG     Flexible conductor   Value   0.5 4 mm²     Flexible conductor with non   Norme   Manufacturer data   Manufacturer data     Insulated ferrule   Value   0.5 4 mm²   26 12 AWG     Flexible conductor with insulated   Norme   Manufacturer data   Manufacturer data     Insulated ferrule   Value   0.5 4 mm²   26 12 AWG     Insulated ferrule   Value   O.5 4 mm²   26 12 AWG     Insulated ferrule   Value   O.5 4 mm²   26 12 AWG     Insulated ferrule   Value   O.5 4 mm²   26 12 AWG     Insulated ferrule   Value   O.5 4 mm²   26 12 AWG     Insulated ferrule   Value   O.5 4 mm²   Amaufacturer data     Insulated ferrule   Value   O.5 4 mm²   Amaufacturer data     Insulated ferrule   Value   O.5 4 mm²   Amaufacturer data     Insulated ferrule   Value   O.5 4 mm²   O.5 4 mm²     Insulated ferrule   Value   O.5 4 mm²   O.												
Rigid - Solid / Stranded conductor   Value   0.5 6 mm²   26 10 AWG     Flexible conductor   Value   0.5 4 mm²     Flexible conductor with non   Norme   Manufacturer data   Manufacturer data     Insulated ferrule   Value   0.5 4 mm²   26 12 AWG     Insulated ferrule   Value   0.5 4 mm	Connecting capacity	y per clamp	_								_	
Flexible conductor    Norme   IEC60947-7-1	Rigid - Solid / Stranded	conductor —										
Flexible conductor  Value  0.5 4 mm²  Manufacturer data  Manufacturer data  Manufacturer data  Serule  Value  0.5 4 mm²  26 12 AWG  Manufacturer data  Errule  Value  0.5 4 mm²  26 12 AWG  2.9 mm  Ferrule maximum outer diameter or conductor  Manufacturer data		-				26	10 AWG					
Flexible conductor with non Norme Manufacturer data Manufacturer data Substituting Manufacturer data Manufacturer data Substituting Manufacturer data Manufacturer data Manufacturer data Manufacturer data Manufacturer data Substituting Manufacturer data Manufacturer data Manufacturer data Substituting Manufacturer data Manufacturer data Substituting Substituting Manufacturer data Substituting	Flexible conductor							-				
Insulated ferrule Value 0.5 4 mm² 26 12 AWG  Flexible conductor with insulated Norme Manufacturer data Manufacturer data  Ferrule Value 0.5 4 mm² 26 12 AWG  26 12 AWG  29 mm  Ferrule maximum outer diameter or conductor  Ferrule maximum outer diameter or conductor	Flexible conductor with r	non				Manuf	acturer data					
Ferrule maximum outer diameter or conductor  Norme Manufacturer data Manufacturer data 26 12 AWG 2.9 mm  IEC 60947-1  Ferrule maximum outer diameter or conductor												
Gauge 2.9 mm  IEC 60947-1  Ferrule maximum outer diameter or conductor  Manufacturor data 5.25 mm	Flexible conductor with i	nsulated				1						
Ferrule maximum outer diameter or conductor  Manufacturor data  5.25 mm	errule		Value	0.5 4 mm	2							
Ferrule maximum outer diameter or conductor  Manufacturer data  5.25 mm						2	2.9 mm					
Manufacturor data   b 2b mm		motor or con-li-	otor	IEC 60947-1	l							
			CiOI	Ø	Max.	Manuf	acturer data		5.35 r	mm		

The "Connecting capacity with ferrule" data is guaranteed with ABB crimping tool PS-3 (crimping capacity up to 10 mm²).

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Multi Connecting capacity per clamp

2 Rigid - Solid / Stranded	Norme			
conductors	Value			
2 Flexible conductors	Norme			
2 Flexible Colluctors	Value			
2 Flexible conductors with twin	Norme	Manufacturer data	Manufacturer data	
ferrule	Value	0.5 1 mm <sup>2</sup>	26 18 AWG	

Don't mix solid and flexible conductors in the same clamp

Don't mix solid or flexible conductors of different sizes in the same clamp

The "Connecting capacity with ferrule" data is guaranteed with ABB crimping tool PS-3 (crimping capacity up to 10 mm²)

#### Cross section

Rated cross section	IEC60947-7-1	4 mm²	UL1059	10 AWG
Maximum Cross section	Manufacturer data	6 mm <sup>2</sup>	Manufacturer data	10 AWG

#### Electrical characteristics Current

Rated current			IEC60947-7-1	32 A	
	Field and factory wiring Cat.2		UL 1059	30 A	
	Factory wiring Cat.1		UL 1059		
			CSA-C-22.2 n°158	30 A	
Maximum Exe current			IEC/EN 60079-7	29 A	
Rated short-time withstand current 1 s (Icw)			IEC60947-7-1	480 A	
Short-time withstand current		0.5 s	Manufacturer data		
		5 s	Manufacturer data		
		10 s	Manufacturer data		
		30 s	Manufacturer data		
		1 min	Manufacturer data		
Rated short-circuit withstand current			CSA-C-22.2 n°158		
Max. current (45° temperature increase) / Max	. cross section (mm²)		Manufacturer data	40 A	6 mm <sup>2</sup>
Maximum short circuit current (1s)			Manufacturer data	480 A	•

### Short Circuit Current Rating (SCCR) SA UL 1059 supplement

SCCR		UL 1059	100 kA
With the following configurations:			
	Suitable conductor wire range		10 AWG
	Maximum voltage		600 V
	Fuse class / Max. amp. Rating	J	175 A
		T	175 A
		RK1	100 A
		RK5	60 A
		G	60 A
		CC	30 A

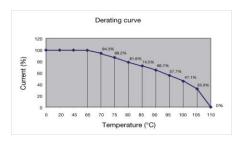
#### Voltage

Rated voltage	IEC 60947-1	1000 V
Rated voltage	UL 1059	600 V
Use Group	UL 1059	B, C, D
Rated voltage	CSA-C-22.2 n°158	600 V
Rated voltage Ex e	IEC/ EN 60079-7	630 V
Rated impulse withstand voltage	IEC 60947-1	8000 V
Dielectric test voltage	IEC 60947-1	2200 V
Pollution degree	IEC 60947-1	3
Overvoltage category	IEC 60947-1	III
	1	

#### Temperature range

Ambient temperature min/max	Storage	-55 +110 °C	-67 +230 °F
	Installing	-5 +40 °C	-23 +104 °F
	Service	-55 +110 °C	-67 +230 °F

Current Derating curve for continuous service temperature



#### Dissipated power

Maximum dissipated power at rated current	IEC 60947-1 1 W
Maximum dissipated power at maximum Exe current	IEC 60079-7 0.9 W

Rated power dissipation at an ambient temperature of 23 °C - IEC 60947-7-3

Separate arrangement / Overload and short-circuit protection  Separate arrangement / Exclusive short-circuit protection		
Compound arrangement / Overload and short-circuit protection		
Compound arrangement / Exclusive short-circuit protection	「当」当「当」当 5 fuse blocks	

#### **Environmental Characteristics** Additional climatic tests

Dry heat		IEC 60068-2 2 Compliant
	Conditions	Temperature 110 °C
		Duration of test 96 h
Cyclic damp heat		IEC 60068-2 30 Compliant
	Conditions	Temperature 55 °C
		Relative humidity 95 %
		Number of cycles (1 cycle = 24h) 2
Cold		IEC 60068-2 1 Compliant
	Conditions	Temperature -55 °C
		Duration of test 96 h
Damp heat steady state		IEC 60068-2-78 Compliant
	Conditions	Temperature 40 °C
		Relative humidity 93 %
		Duration of test 96 h

#### Corrosion

Salt mist		IEC 60068-2 11 Compliant
	Conditions	Duration of test 1000 h
		Concentration 5 %
SO2		ISO 6988 Compliant
	Conditions	Duration of test 48 h
		Concentration 0.2 dm <sup>3</sup>
Flowing mixed gas corrosion test		IEC 60068-2 60 Compliant
	Conditions	Number of the test method 3
		Duration of test 21 j

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### Vibrations and shocks

Sinusoidal vibrations		IEC 60068-2-6 Compliant
	Conditions	Frequency range 5 100 Hz
		Number of cycles 1
		Acceleration 7 m/s <sup>2</sup>
Functional random vibrations		IEC 61373 Compliant
Category 1 Class B 3 axes	Conditions	Duration of test 20 mn
		Frequency range 5 150 Hz
		Acceleration 1 m/s <sup>2</sup>
Long life testing at increased random vibrations		IEC 61373 Compliant
Category 1 Class B 3 axes	Conditions	Duration of test 5 h
		Frequency range 5 150 Hz
		Acceleration 5.7 m/s <sup>2</sup>
Shock		IEC 61373 Compliant
Category 1 Class B 3 axes	Conditions	Duration of test 30 ms
		Acceleration 5 G

ZK4-4P Terminal Block Accessories Compatibility

Some accessories may modify the terminal block's rating. See complete information in the accessories catalog page.

Description	Туре	Order Code	Pack <sup>(ing)</sup>	Weight	
			pieces	g (1 pce)	
1 End Stops	BAM3	1SNK900001R0000	50	13.80	
	BAZ1	1SNK900002R0000	20	5.30	
	BAZH1	1SNK900102R0000	20	23.90	
2 End Sections	EK2.5-4P	1SNK705912R0000	20	2.7	
3 Jumper Bars	JB6-2	1SNK906302R0000	50	1.30	
	JB6-3	1SNK906303R0000	50	2.10	
	JB6-4	1SNK906304R0000	50	2.90	
	JB6-5	1SNK906305R0000	50	3.60	
	JB6-10	1SNK906310R0000	20	7.40	
	JB6-50	1SNK906350R0000	10	38.10	
4 Circuit Separators	CS-R3	1SNK900107R0000	20	6.4	
5 Test Adapters	TP2	1SNK900203R0000	20	1.73	
·	TP4	1SNK900205R0000	20	2.41	
6 Test Connectors	TC5-R1	1SNK900201R0000	10	5.23	
7 Spacers	ES-TC6	1SNK900105R0000	10	0.80	
8 Mounting Rails	PR3.G2	1SNA164800R0300	2		
0	PR4	1SNA168500R1200	2	915.00	
	PR5	1SNA168700R2200	2		
	PR30	1SNA173220R0500	2	328.00	
	PR3.Z2	1SNA174300R1700	2		
	PR50	1SNA178529R0400	2	1 288.00	
9 Tools	PS-3	1SNK900650R0000	1	380.00	
0 Terminal Block Markers	MC512	1SNK140000R0000	22	9.00	
	MC512-YL	1SNK140004R0000	22	9.00	
	MC512PA	1SNK149999R0000	20	10.00	
	MC612	1SNK150000R0000	22	10.00	
	MC612-YL	1SNK150004R0000	22	10.00	
	MC612PA	1SNK159999R0000	20	11.00	
	PROCAP5	1SNK900609R0000	20	0.69	
	UMH	1SNK900611R0000	10	0.20	
	PROCAP6	1SNK900612R0000	20	0.78	
	SAT6	1SNK900615R0000	5	6.00	
	37110	131111700010110000		0.00	

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## Contact us

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#### Note

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