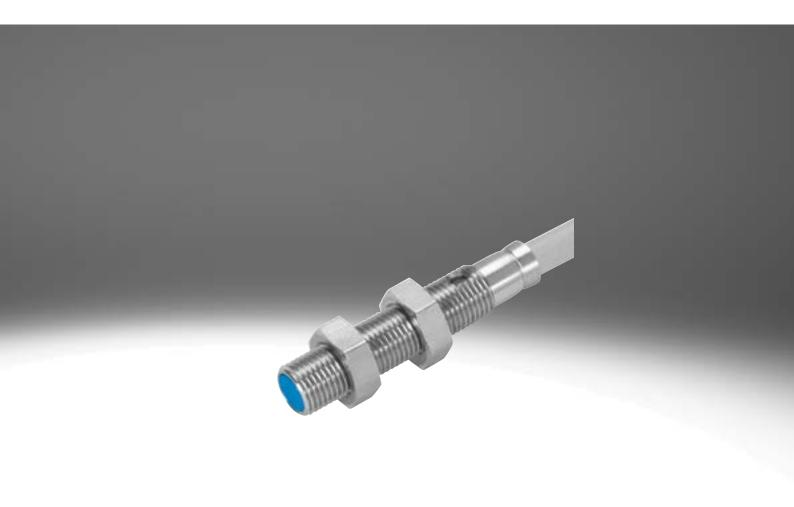
Proximity switches SIEN..., inductive





*

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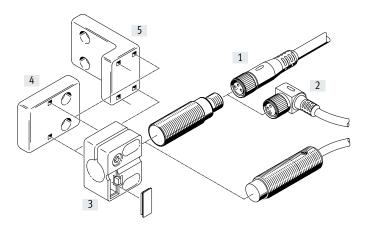
Proximity switches SIE..., inductive

Product range overview

Design	Туре	Operating voltage	Switching output/ analogue output	Type of installation	Size	→ Page
Reduction factor, material-spe	cific					
Standard switching distance	SIEN	10 30 V DC	PNP	Flush	Ø 4 mm, M5, Ø 6.5 mm, M8,	5
	Basic version	15 34 V DC	NPN	Not flush	M12, M18, M30	
	SIENPA	10 30 V DC	PNP	Flush	M12, M18, M30	13
	Polyamide housing		NPN	Not flush		
	SIED	20 265 V AC	Non-contacting, 2-wire	Flush	M12, M18, M30	-
	Basic version	20 320 V DC		Not flush		
	SIEDPA	20 250 V AC	Non-contacting, 2-wire	Flush	M12, M18, M30	-
	Polyamide housing	10 300 V DC		Not flush		
	SIES	10 30 V DC	PNP	Flush	5x5x25 mm	-
	Special design		NPN		40x40x120 mm	
ncreased switching distance	SIEH	10 30 V DC	PNP	Flush	Ø 3 mm, M12, M18	-
	Basic version	15 34 V DC	NPN			
	SIEHCR	10 30 V DC	PNP	Flush	M12, M18	-
	Stainless steel housing		NPN			
Reduction factor 1 for all meta	ls, welding-field-resistant					
Increased switching distance	SIEF	10 65 V DC	PNP	Flush	M8, M12, M18, M30	-
	Basic version		NPN	Partially flush	40x40x65 mm	
	SIEFWA	10 30 V DC	PNP	Flush	M12, M18, M30	-
	Housing resistant to welding		NPN	Partially flush		
	spatter					

Peripherals overview

SIE...



Mounti	ing components and accessories	→ Page
[1]	Connecting cable, straight socket	17
	NEBU-MG	
[2]	Connecting cable, angled socket	17
	NEBU-MW	
[3]	Sensor bracket	17
	SIEZ-B	
[4]	Sensor bracket	17
	SIEZ-NB	
[5]	Sensor bracket	17
	SIEZ-UH	
-	Mounting bracket	17
	HV-M5	
Mounti	ing components and accessories	→ Page
-	Foot mounting	17
	HBN	
-	Flange mounting	17
	FBN	
-	Stop	17
	SDA	

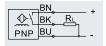
Proximity switches SIEN..., inductive

Type codes

001	Series	
SIEN	Proximity sensor, inductive, with standard switching distance	
002	Design	
4	Round, diameter 4 mm	
6,5	Round, diameter 6.5 mm	
M5	M5	
M8	M8	
M12	M12	
M18	M18	
M30	M30	
003	Mounting type	
В	Flush	
NB	Not flush	

004	Switching input/output	
P	PNP	
N	NPN	
005	Switching element function	
0	N/C contact	
S	N/O contact	
006	Electrical connection	
S	Plug	
K	Open end	
007	Display	
L	Switching status	
800	Housing material	
800	Housing material Standard	

Function¹⁾



1) e.g. N/O contact with PNP output and cable

Input signal/measuring element

- Standard switching distance
- For DC voltage
- Round design



General technical data											
Size	4 mm	M5	6.5 mm	M8	M12	M18	M30				
Conforms to standard	EN 60947-5-2	EN 60947-5-2									
Certification	on c UL us listed (OL)										
	RCM trademark										
CE marking	To EU EMC Direct	To EU EMC Directive ¹⁾									
(see declaration of conformity)											
Note on materials	Free of copper and PTFE										
	RoHS-compliant										

¹⁾ For information about the area of use, see the EC declaration of conformity at: www.festo.com/sp → Certificates.

If the devices are subject to usage restrictions in residential, commercial or light-industrial environments, further measures for the reduction of the emitted interference may be necessary.

Ambient temperature	[°C]	-25 +	70										
Output, general													
Type of installation		Flush							Not flush				
Size		4 mm	M5	6.5 mm	M8	M12	M18	M30	M8	M12	M18	M30	
		_			_		_		_	_	_		
Repetition accuracy	[mm]	0.04	0.04	0.07	0.07	0.1	0.25	0.5	0.12	0.2	0.4	0.75	
Switching output													
Type of installation		Flush							Not flush				
Size		4 mm	M5	6.5 mm	M8	M12	M18	M30	M8	M12	M18	M30	
Switching output	:	PNP	PNP							PNP			
		NPN							NPN				
Switching element function		N/O cont	act						N/O conta	act			
		N/C cont	act						N/C contact				
Rated operating distance	[mm]	0.8	0.8	1.5	1.5	2	5	10	2.5	4	8	15	
Assured operating distance	[mm]	0.64	0.64	1.21	1.21	1.62	4.05	8.1	2.03	3.24	6.48	12.15	
Reduction factors													
Aluminium		0.4	0.4	0.25	0.25	0.4	0.4	0.45	0.25	0.5	0.5	0.5	
Stainless steel St18/8		0.7	0.7	0.7	0.7	0.6	0.8	0.8	0.7	0.9	0.8	0.85	
Copper		0.3	0.3	0.2	0.2	0.3	0.4	0.4	0.2	0.5	0.4	0.43	
Brass		0.4	0.4	0.35	0.35	0.5	0.5	0.55	0.35	0.6	0.5	0.53	
Steel St 37		1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
Hysteresis	[mm]	-	-	≤ 0.07	≤ 0.07	≤ 0.18	≤ 0.55	≤ 1.1	≤ 0.12	≤ 0.36	≤ 0.88	≤ 1.65	
Max. switching frequency	[Hz]	3 000	3 000	5 000	5 000	3 000	2 000	1 200	3 000	2 000	2 000	700	
Max. output current	[mA]	200		<u> </u>	•		•		•	•	•		
Voltage drop	[V]	0 2											

Output, additional data												
Size		4 mm	М	5	6.5 mm	N	18	M12		M18	M3	0
Short circuit current rating		Pulsed										
Inductive protective circuit	,	Integrated						,		,		
Induced voltage protection		Integrated			-							
Electronics		1.	1	_	1	1.		1		1	1	_
Size		4 mm	М	5	6.5 mm	٨	18	M12		M18	M3	10
Operating voltage range	[V DC]	10 30										
Residual ripple	[%]	10			±10					±20		
Idle current	[mA]	0 10										
Reverse polarity protection	:	For all elec	trical conn	ections		:						
Electromechanics												
Size		4 mm	M	5	6.5 mm	N	18	M12		M18	M3	0
Cable												
Electrical connection		Cable, 3-w	ire									
Cable length	[m]	2.5										
Information on materials: Cable sheath	,	TPE-U (PUR	PE-U (PUR)									
Plug												
Electrical connection		Plug, M8x1	I. Pli	ug, M8x1,	Plug, Ma	8x1. P	lug, M8x1,	Plug, N	112x1.	Plug, M12x1	l. Plu	g, M12x1,
		3-pin		pin	3-pin		-pin	3-pin	,	3-pin	3-r	
	-:	•					•					
Mechanics												
Size		4 mm	M5	6.5 mm	M8		M12		M18		M30	
Type of mounting		Clamped	With lock	Clamped	With lock	nut						
Type of installation		Flush			Flush	Not flush	Flush	Not flush	Flush	Not flush	Flush	Not flush
Tightening torque	[Nm]	-	2	-	-		-		20		40	
Cable								-				
Product weight	[g]	48	48	45	53	53	110	90	108	105	155	150
Information on materials: Housing	101	High-alloy			1	1	Nickel-plat		1	1-73		plated brass
3			PA			T-					1	
			-			PBTP						
Dlug					-							
Plug Product weight	[g]	9	9	4	18	18	30	25	43	40	100	100
Information on materials: Housing	roı	High-alloy			1	120	-	1	1	1	1	1200
		-	_		ated brass		Nickel-plated brass				Chrome	plated brass
			PA	1 p.			1				1	1
			-			PBTP						
	-			-:				:		:		
Display/operation					:					i i		:
Display/operation Switching status indication		Yellow LED		:	i							

Immission/emission									
Size		4 mm	M5	6.5 mm	M8	M12	M18	M30	
Ambient temperature with flexible cable	[°C]	-	-5 +70	−5 +70		-5 +70			
installation									
Degree of protection		-		IP65			_		
		IP67		IP67			IP67		
Surge resistance	[kV]	-	1	-			0.8		
Corrosion resistance class CRC ¹⁾		_	4	2			-		
Pollution degree		-	3	-			3		

¹⁾ Corrosion resistance class CRC 2 to Festo standard FN 940070

Moderate corrosion stress. Indoor applications in which condensation can occur. External visible parts with primarily decorative surface requirements which are in direct contact with a normal industrial environment. Corrosion resistance class CRC 4 to Festo standard FN 940070

Particularly high corrosion stress. Outdoor exposure under extreme corrosive conditions. Parts exposed to aggressive media, e.g. in the chemical or food industries.

Such applications may need to be safeguarded by means of special testing (→ also FN 940082), using appropriate media.

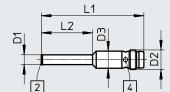
M12x1, 3-pin			
N/O contact			
	Pin	Wire colour	Allocation
	1	Brown	+
3 + + 1	3	Blue	_
+ 1	4	Black	Output
4			

N/C contact			
	Pin	Wire colour	Allocation
2	1	Brown	+
3 + + 1	3	Blue	_
+ + 1	2	White	Output

Dimensions – 4 mm

Flush installation Cable SIEN-...-K-L

Cable SIEN-...-K-L



Plug SIEN-...-S-L

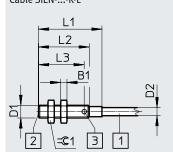
- [1] 3-wire cable, 2.5 m long
- [2] Active surface
- Download CAD data → www.festo.com
 - yellow
- [4] 4 switching status indications, yellow

[3] 1 switching status indication,

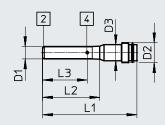
Туре	D1 Ø	D2 Ø	D2	D3 Ø	L1	L2	L3
SIEN-4BK-L	4	3.5	-	-	25	-	18
SIEN-4BS-L	4	-	M8x1	6.5	38	21	-

Dimensions – M5

Flush installation Cable SIEN-...-K-L



Plug SIEN-...-S-L



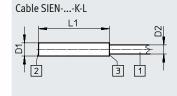
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- [3] 1 switching status indication, yellow
- [4] 1 switching status indication, yellow

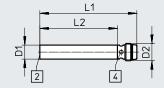
Туре	B1	D1	D2 Ø	D2	D3 Ø	L1	L2	L3	= © 1
SIEN-M5BK-L	2.5	M5x0.5	3.5	-	-	25	20	18	7
SIEN-M5BS-L	-	M5x0.5	_	M8x1	6.5	38	23	_	6.5

Dimensions - 6.5 mm

Flush installation



Plug SIEN-...-S-L



- [1] 3-wire cable, 2.5 m long[2] Active surface

[1] 3-wire cable, 2.5 m long

[2] Active surface

[3] 1 switching status indication, yellow

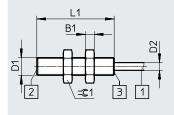
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[4] 4 switching status indication, yellow

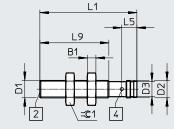
Туре	D1 Ø	D2 Ø	D2	L1	L2
SIEN-M6.5BK-L	6.5	3.5	-	35	-
SIEN-M6.5BS-L	6.5	-	M8x1	45	36

Dimensions - M8

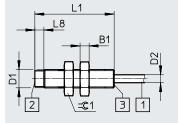
Flush installation Cable SIEN-...-K-L



Plug SIEN-...-S-L

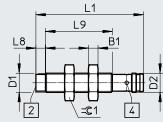


Non-flush installation Cable SIEN-M8NB-...-K-L



Download CAD data → www.festo.com

Plug SIEN-M8NB-...-S-L

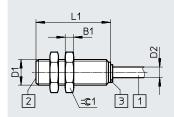


- [1] 3-wire cable, 2.5 m long
- [2] Active surface
- [3] 1 switching status indication, yellow
- [4] 4 switching status indications, yellow
- [1] 3-wire cable, 2.5 m long
- [2] Active surface
- [3] 1 switching status indication, yellow
- [4] 4 switching status indications, yellow

Туре	B1	D1	D2 Ø	D2	L1	L5	L8	L9	= © 1
SIEN-M8BK-L	4	M8x1	3.5	_	35	-	-	-	13
SIEN-M8BS-L	4	M8x1	-	M8x1	45	7	-	32	13
SIEN-M8NBK-L	4	M8x1	3.5	-	35	-	4	-	13
SIEN-M8NBS-L	4	M8x1	-	M8x1	45	-	4	27.5	13

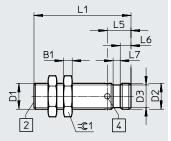
Dimensions - M12

Flush installation Cable SIEN-...-K-L



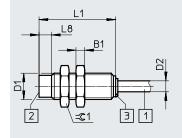
- [1] 3-wire cable, 2.5 m long
- [2] Active surface
- [3] 1 switching status indication, yellow

Plug SIEN-...-S-L



[4] 4 switching status indications, yellow

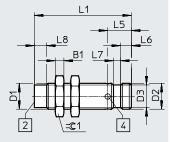
Non-flush installation Cable SIEN-M12NB-...-K-L



- [1] 3-wire cable, 2.5 m long
- [2] Active surface
- [3] 1 switching status indication, yellow

Download CAD data → www.festo.com

Plug SIEN-M12NB-...-S-L

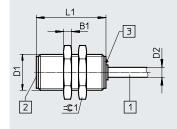


[4] 4 switching status indications, yellow

Туре	B1	D1	D2 Ø	D2	D3 Ø	L1	L5	L6	L7	L8	= © 1
SIEN-M12BK-L	4	M12x1	5	-	-	35	-	-	-	-	17
SIEN-M12BS-L	4	M12x1	-	M12x1	-	45	11	5	3.3	-	17
SIEN-M12NBK-L	4	M12x1	5	-	-	35	-	-	-	5.7	17
SIEN-M12NBS-L	4	M12x1	-	M12x1	10.5	45	11	5	3.3	5.7	17

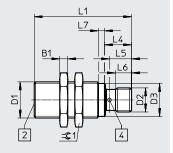
Dimensions - M18

Flush installation Cable SIEN-...-K-L



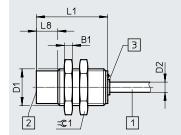
- [1] 3-wire cable, 2.5 m long
- [2] Active surface
- [3] 1 switching status indication, yellow

Plug SIEN-...-S-L



[4] 4 switching status indications, yellow

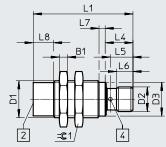
Non-flush installation Cable SIEN-M18NB-...-K-L



- [1] 3-wire cable, 2.5 m long
- [2] Active surface
- [3] 1 switching status indication, yellow

Download CAD data → www.festo.com

Plug SIEN-M18NB-...-S-L

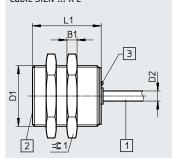


[4] 4 switching status indications, yellow

Туре	B1	D1	D2 Ø	D2	D3 Ø	L1	L4	L5	L6	L7	L8	= © 1
SIEN-M18BK-L	4	M18x1	5	-	-	35	-	-		-	-	24
SIEN-M18BS-L	4	M18x1	-	M12x1	16.4	48.5	13.5	11	8	3	-	24
SIEN-M18NBK-L	4	M18x1	5	-	-	35	-	-	-	-	10	24
SIEN-M18NBS-L	4	M18x1	_	M12x1	16.4	48.5	13.5	11	8	3	10	24

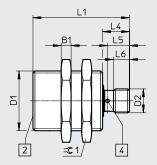
Dimensions - M30

Flush installation Cable SIEN-...-K-L



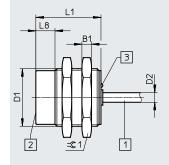
- [1] 3-wire cable, 2.5 m long
- [2] Active surface
- [3] 1 switching status indication, yellow

Plug SIEN-...-S-L



[4] 4 switching status indications,

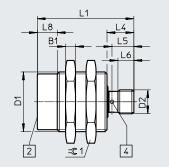
Non-flush installation Cable SIEN-M30NB-...-K-L



- [1] 3-wire cable, 2.5 m long
- [2] Active surface
- [3] 1 switching status indication, yellow

Download CAD data → www.festo.com

Plug SIEN-M30NB-...-S-L

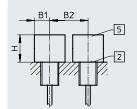


[4] 4 switching status indications, yellow

Туре	B1	D1	D2 Ø	D2	L1	L4	L5	L6	L8	= © 1
SIEN-M30BK-L	5	M30x1.5	5	-	35	-	-	-	-	36
SIEN-M30BS-L	5	M30x1.5	-	M12x1	48.5	13.5	11	8	-	36
SIEN-M30NBK-L	5	M30x1.5	5	-	35	-	-	-	10	36
SIEN-M30NBS-L	5	M30x1.5	-	M12x1	48.5	13.5	11	8	10	36

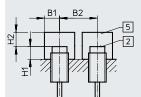
Fitting instructions

Flush installation



- [2] Active surface
- [5] Metal-free zone





- [2] Active surface
- [5] Metal-free zone

Size	B1	B2	Н
4 mm	2.5	5	2
M5	3.3	5	2.4
6.5 mm	5	9.5	4.5
M8	5.5	10	4.5
M12	8	18	6
M18	14	32	15
M30	25	60	30

Size	B1	B2	H1	H2
M8	9	16	8	7.5
M12	12	28	6	12
M18	20	50	10	24
M30	30	75	15	45

★ Core product range

Ordering data								
Size	S _n ¹⁾	Type of	Switching	Switching element	Electrical conn	ection		
		installation	output	function	Cable		Plug	
	[mm]				Part no.	Туре	Part no.	Туре
M5								
	0.8	Flush	PNP	N/O contact	★ 150370	SIEN-M5B-PS-K-L	★ 150371	SIEN-M5B-PS-S-L
AND THE REAL PROPERTY OF THE PARTY OF THE PA			NPN	N/O contact	± 150368	SIEN-M5B-NS-K-L	★ 150369	SIEN-M5B-NS-S-L
M8								
-50 -50	1.5	Flush	PNP	N/O contact	★ 150386	SIEN-M8B-PS-K-L	★ 150387	SIEN-M8B-PS-S-L
			NPN	N/O contact	★ 150384	SIEN-M8B-NS-K-L	★ 150385	SIEN-M8B-NS-S-L

¹⁾ Sn Rated operating distance [mm]

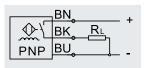
Ordering data				ı							
Size	S _n ¹⁾	Type of	Switching	Switching element	Electrical conr	nection					
		installation	output	function	Cable		Plug				
	[mm]				Part no.	Туре	Part no.	Туре			
4 mm											
	0.8	Flush	PNP	N/O contact	150362	SIEN-4B-PS-K-L	150363	SIEN-4B-PS-S-L			
				N/C contact	150366	SIEN-4B-PO-K-L	150367	SIEN-4B-PO-S-L			
			NPN	N/O contact	150360	SIEN-4B-NS-K-L	150361	SIEN-4B-NS-S-L			
				N/C contact	150364	SIEN-4B-NO-K-L	150365	SIEN-4B-NO-S-L			
M5	•										
	0.8	Flush	PNP	N/C contact	150374	SIEN-M5B-PO-K-L	150375	SIEN-M5B-PO-S-L			
	0.0	110311	NPN	N/C contact	150374	SIEN-M5B-NO-K-L	150373	SIEN-M5B-NO-S-L			
			''' ''	11/ c contact	150572	SIEN MOD NO KE	150575	SIEM MISB NO S E			
6.5 mm											
	1.5	Flush	PNP	N/O contact	150378	SIEN-6.5B-PS-K-L	150379	SIEN-6.5B-PS-S-L			
////				N/C contact	150382	SIEN-6.5B-PO-K-L	150383	SIEN-6.5B-PO-S-L			
			NPN	N/O contact	150376	SIEN-6.5B-NS-K-L	150377	SIEN-6.5B-NS-S-L			
				N/C contact	150380	SIEN-6.5B-NO-K-L	150381	SIEN-6.5B-NO-S-L			
				-							
M8	14.5	Flush	PNP	N/C	450200	SIEN-M8B-PO-K-L	4.50204	SIEN-M8B-PO-S-L			
	1.5	Flush		N/C contact	150390		150391				
			NPN	N/C contact	150388	SIEN-M8B-NO-K-L	150389	SIEN-M8B-NO-S-L			
	2.5	Not	PNP	N/O contact	150394	SIEN-M8NB-PS-K-L	150395	SIEN-M8NB-PS-S-L			
		flush		N/C contact	150398	SIEN-M8NB-PO-K-L	150399	SIEN-M8NB-PO-S-L			
<i>y</i>			NPN	N/O contact	150392	SIEN-M8NB-NS-K-L	150393	SIEN-M8NB-NS-S-L			
				N/C contact	150396	SIEN-M8NB-NO-K-L	150397	SIEN-M8NB-NO-S-L			

Sn Rated operating distance [mm]

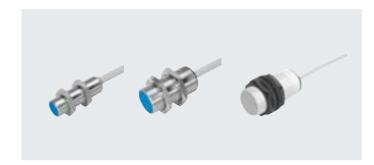
Ordering data									
Size	S _n ¹⁾	Type of	Switching	Switching element	Electrical conn	ection			
		installation	output	function	Cable		Plug		
	[mm]				Part no.	Туре	Part no.	Туре	
M12									
	2.0	Flush	PNP	N/O contact	150402	SIEN-M12B-PS-K-L	150403	SIEN-M12B-PS-S-L	
				N/C contact	150406	SIEN-M12B-PO-K-L	150407	SIEN-M12B-PO-S-L	
•			NPN	N/O contact	150400	SIEN-M12B-NS-K-L	150401	SIEN-M12B-NS-S-L	
				N/C contact	150404	SIEN-M12B-NO-K-L	150405	SIEN-M12B-NO-S-L	
	4.0	Not flush	PNP	N/O contact	150410	SIEN-M12NB-PS-K-L	150411	SIEN-M12NB-PS-S-L	
				N/C contact	150414	SIEN-M12NB-PO-K-L	150415	SIEN-M12NB-PO-S-L	
•			NPN	N/O contact	150408	SIEN-M12NB-NS-K-L	150409	SIEN-M12NB-NS-S-L	
				N/C contact	150412	SIEN-M12NB-NO-K-L	150413	SIEN-M12NB-NO-S-L	
M18									
W110	5.0	Flush	PNP	N/O contact	150418	SIEN-M18B-PS-K-L	150419	SIEN-M18B-PS-S-L	
	,			N/C contact	150422	SIEN-M18B-PO-K-L	150423	SIEN-M18B-PO-S-L	
			NPN	N/O contact	150416	SIEN-M18B-NS-K-L	150417	SIEN-M18B-NS-S-L	
				N/C contact	150420	SIEN-M18B-NO-K-L	150421	SIEN-M18B-NO-S-L	
	8.0	Not flush	3.0 Not flush	PNP	N/O contact	150426	SIEN-M18NB-PS-K-L	150427	SIEN-M18NB-PS-S-L
	'			N/C contact	150430	SIEN-M18NB-PO-K-L	150431	SIEN-M18NB-PO-S-L	
			NPN	N/O contact	150424	SIEN-M18NB-NS-K-L	150425	SIEN-M18NB-NS-S-L	
				N/C contact	150428	SIEN-M18NB-NO-K-L	150429	SIEN-M18NB-NO-S-L	
M30				•					
WI O	10.0	Flush	PNP	N/O contact	150434	SIEN-M30B-PS-K-L	150435	SIEN-M30B-PS-S-L	
	10.0	T tusii	"	N/C contact	150438	SIEN-M30B-PO-K-L	150439	SIEN-M30B-PO-S-L	
			NPN	N/O contact	150432	SIEN-M30B-NS-K-L	150433	SIEN-M30B-NS-S-L	
				N/C contact	150436	SIEN-M30B-NO-K-L	150437	SIEN-M30B-NO-S-L	
	15.0	Not flush	PNP	N/O contact	150442	SIEN-M30NB-PS-K-L	150443	SIEN-M30NB-PS-S-L	
	, 25.0		"	N/C contact	150446	SIEN-M30NB-PO-K-L	150447	SIEN-M30NB-PO-S-L	
			NPN	N/O contact	150440	SIEN-M30NB-NS-K-L	150441	SIEN-M30NB-NS-S-L	
				N/C contact	150444	SIEN-M30NB-NO-K-L	150445	SIEN-M30NB-NO-S-L	
				, e contact	170111	S.E MISONS NO ICE	150,75	S.E.I III JOHN NO JE	

¹⁾ Sn Rated operating distance [mm]

Function¹⁾



- 1) e.g. N/O contact with PNP output and cable
- Standard switching distance
- Corrosion-resistant
- Polyamide housing
- For DC voltage
- Round design



General technical data	
Design	Round
Conforms to standard	EN 60947-5-2
Certification	c UL us listed (OL)
	RCM trademark
CE marking	To EU EMC Directive ¹⁾
(see declaration of conformity)	
Note on materials	Free of copper and PTFE

¹⁾ For information about the area of use, see the EC declaration of conformity at: www.festo.com/sp Certificates.

If the devices are subject to usage restrictions in residential, commercial or light-industrial environments, further measures for the reduction of the emitted interference may be necessary.

Input signal/measuring element							
Ambient temperature	[°C]	−25 +70					
Output general							
Output, general Type of installation		Flush			Not flush		
Size		M12	M18	M30	M12	M18	M30
Repetition accuracy	[mm]	0.04	0.1	0.2	0.08	0.16	0.3
Type of installation Size		Flush M12	M18	M30	Not flush M12	M18	M30
Switching output	-	PNP	-		PNP		
		NPN			NPN		
Switching element function		N/O contact			N/O contact		
Rated operating distance	[mm]	2	5	10	4	8	15
Assured operating distance	[mm]	1.62	4.05	8.1	3.24	6.48	12.15
Reduction factors							
A1		0.25 0.5			0.25 0.5		

Aluminium		0.35 0.5			0.35 0.5		
Stainless steel St18/8		0.6 1.0			0.6 1.0		
Copper		0.25 0.45		,	0.25 0.45	,	
Brass		0.35 0.5		,	0.35 0.5	,	
Steel St 37		1.0			1.0		
			_				
Hysteresis	[mm]	0.06 0.3	0.15 0.75	0.3 1.5	0.12 0.6	0.24 1.2	0.45 2.25
Max. switching frequency DC	[Hz]	2 000	1 000	500	2 000	1 000	500
Max. output current	[mA]	200		,	200	,	
Voltage drop	[V]	≤ 1.8			≤ 1.8		

Output, additional data	
Short circuit current rating	Pulsed

Electronics		
Operating voltage range	[V DC]	1030
Residual ripple	[%]	10
Idle current	[mA]	≤15
Reverse polarity protection		For all electrical connections

Electromechanics	
Electrical connection	Cable, 3-wire
Cable length [m]	2.5
Information on materials: Cable sheath	PVC
Information on materials: Insulating sheath	PVC

Mechanics							
Size		M12	W12 N		M18		
Type of mounting	f mounting With lock nut						
Type of installation		Flush	Not flush	Flush	Not flush	Flush	Not flush
Tightening torque	[Nm]	-	25	-	25	15	15
Product weight	[g]	41	38	124	141	48	48
Information on materials: Housing		Reinforced PA					

Display/operation			
Switching status indication	Yellow LED		
'			
Immission/emission	Fluch	Not fluch	

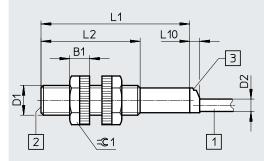
Immission/emission						
Type of installation	Flush			Not flush		
Size	M12	M18	M30	M12	M18	M30
Ambient temperature with flexible cable [°C]	0 +70		0 +70			
installation						
Degree of protection	IP65			IP67		
	IP67					
Corrosion resistance class CRC ¹⁾	4			4		

¹⁾ Corrosion resistance class CRC 4 to Festo standard FN 940070

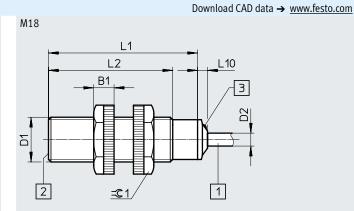
Particularly high corrosion stress. Outdoor exposure under extreme corrosive conditions. Parts exposed to aggressive media, e.g. in the chemical or food industries. Such applications may need to be safeguarded by means of special testing (-> also FN 940082), using appropriate media.

Dimensions

M12



- [1] 3-wire cable, 2.5 m long
- [2] Active surface
- [3] 1 switching status indication,



- [1] 3-wire cable, 2.5 m long
- [2] Active surface
- [3] 1 switching status indication,

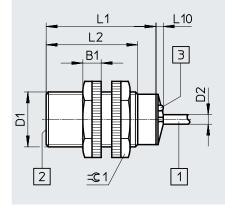
Download CAD data → www.festo.com

2	L1	L2	L10	= © 1	
ð.					

Туре	B1	D1	D2 Ø	L1	L2	L10	= © 1
SIEN-M12BK-L-PA	8	M12x1	5	60	40	4	17
SIEN-M18BK-L-PA	8.2	M18x1	5.2	60	50	4	24

Dimensions

M30

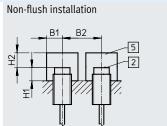


- [1] 3-wire cable, 2.5 m long
- Active surface
- [3] 1 switching status indication, yellow

Туре	B1	D1	D2 Ø	L1	L2	L10	= © 1
SIEN-M30BK-L-PA	10	M30x1.5	5	60	50	4	36

[5] Metal-free zone

Fitting instructions Flush installation B1 B2 5 T 2 Active surface



- [2] Active surface
- [5] Metal-free zone

Size	B1		В	32		Н
M12	18		24		6	
M18	27		36		15	
M30	45	60		0		30
Size	B1		B2	H1		H2
M12	18		36	8		12
M18	27		54	16		24
M30	45		90	30		45

Ordering data						
Size	S _n ¹⁾	Type of installation	Switching output	Switching element	Electrical conr	ection
				function	Cable	
	[mm]				Part no.	Туре
Л12						
	2.0	Flush	PNP	N/O contact	538323	SIEN-M12B-PS-K-L-PA
			NPN		538324	SIEN-M12B-NS-K-L-PA
SJED ^o	4.0	Not flush	PNP		538329	SIEN-M12NB-PS-K-L-PA
			NPN		538330	SIEN-M12NB-NS-K-L-PA
И18						
	5.0	Flush	PNP	N/O contact	538325	SIEN-M18B-PS-K-L-PA
			NPN		538326	SIEN-M18B-NS-K-L-PA
אנאנע	8.0	Not flush	PNP		538331	SIEN-M18NB-PS-K-L-PA
			NPN		538332	SIEN-M18NB-NS-K-L-PA
Л30						
	10.0	Flush	PNP	N/O contact	538327	SIEN-M30B-PS-K-L-PA
			NPN		538328	SIEN-M30B-NS-K-L-PA
	15.0	Not flush	PNP		538333	SIEN-M30NB-PS-K-L-PA
- -			NPN		538334	SIEN-M30NB-NS-K-L-PA

¹⁾ Sn Rated operating distance [mm]

Accessories

Ordering data – Coni	necting cables M8x1			Data sheets → Internet: neb
	Number of wires	Cable length [m]	Part no.	Туре
Straight socket				
	3	2.5	★ 541333	NEBU-M8G3-K-2.5-LE3
		5	★ 541334	NEBU-M8G3-K-5-LE3
Angled socket				
	3	2.5	★ 541338	NEBU-M8W3-K-2.5-LE3
		5	★ 541341	NEBU-M8W3-K-5-LE3
Straight socket				
	Number of wires	Cable length [m]	Part no.	Туре
Straight socket				
	3	2.5	★ 541363	NEBU-M12G5-K-2.5-LE3
20	3	2.5	★ 541363 ★ 541364	NEBU-M12G5-K-2.5-LE3 NEBU-M12G5-K-5-LE3
	3			
		5	★ 541364	NEBU-M12G5-K-5-LE3
Angled socket		5 2.5	★ 541364 ★ 550326	NEBU-M12G5-K-5-LE3 NEBU-M12G5-K-2.5-LE4 ¹⁾
Angled socket		5 2.5	★ 541364 ★ 550326	NEBU-M12G5-K-5-LE3 NEBU-M12G5-K-2.5-LE4 ¹⁾
Angled socket	4	5 2.5 5	★ 541364 ★ 550326 ★ 541328	NEBU-M12G5-K-5-LE3 NEBU-M12G5-K-2.5-LE4 ¹⁾ NEBU-M12G5-K-5-LE4 ¹⁾
Angled socket	4	5 2.5 5	★ 541364 ★ 550326 ★ 541328	NEBU-M12G5-K-5-LE3 NEBU-M12G5-K-2.5-LE4 ¹⁾ NEBU-M12G5-K-5-LE4 ¹⁾ NEBU-M12W5-K-2.5-LE3

¹⁾ For connecting proximity switches SIE...-M12/M18/M30 in N/C contact version with plug.

	For size	Part no.	Туре
Sensor bracket v	vith stop for flush mounting		
(6)	M8	538346	SIEZ-B-8
	M12	538348	SIEZ-B-12
	M18	538350	SIEZ-B-18
	M30	538352	SIEZ-B-30
Sensor bracket v	vithout stop		
	4	538343	SIEZ-NB-4
	6.5	538344	SIEZ-NB-6.5
	M8	538345	SIEZ-NB-8
	M12	538347	SIEZ-NB-12
	M18	538349	SIEZ-NB-18
	M30	538351	SIEZ-NB-30
	M12, M18	538354	SIEZ-UH

Proximity switches SIEN-..., inductive

Accessories

Ordering data – Mounting components						
	For size		Part no.	Туре		
Foot mounting						
	M12		5123	HBN-8/10X1		
Flange mounting						
	M30		195855	FBN-32		
Mounting bracket						
	SIES-V3B		9634	HV-M5		
Stop						
	M8		11542	SDA-8x1-B		
	M12		11541	SDA-12x1-B		