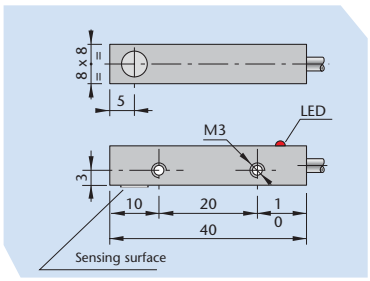
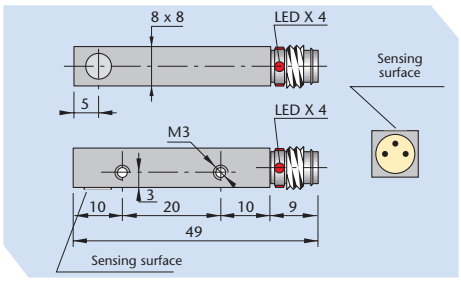
RECTANGULAR INDUCTIVE SENSORS SIPA8 - SIPC8 - SIP10

CE

3 WIRES D.C.
CONFORMING TO EN 50044
VERSION-C

▲ EMBEDDABLE (FLUSH MOUNTING)





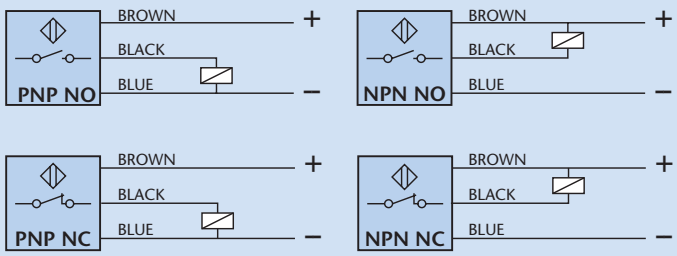
TECHNICAL CHARACTERISTICS

Dimensions mm

AMPLIFIED 3 WIRES D.C.	NPN	NO	SIPA8 - C2 NPN NO	SIPA8 - C2 NPN NO H 1
		NC	SIPA8 - C2 NPN NC	SIPA8 - C2 NPN NC H 1
	PNP	NO	SIPA8 - C2 PNP NO	SIPA8 - C2 PNP NO H 1
		NC	SIPA8 - C2 PNP NC	SIPA8 - C2 PNP NC H 1

Switching distance (Sn)	mm	2	2
Continuous voltage (residual ripple ≤10%)	V	6 ÷ 30	
Hysteresis (%Sn)	mm	< 10%	
Switching frequency	Hz	2000	
Repeatability	% of Sn	≤ 3	
Max output current	mA	200	
Absorption at 24Vdc	mA	< 12	
Voltage drop (sensor ON)	V	< 1.8	
Short circuit protection		Incorporated	
Led		Incorporated	
Temperature limits	°C	- 25 ÷ + 70	
Degree of protection	IP	67	Depending on connector
Housing		Anodized aluminium	
Cable PVC	2m	3 x 0.14 mm²	
Connector plug			H1

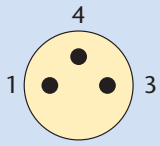
WIRING DIAGRAMS



N.B.: On request is available cable for sensors with different length
3.5 - 7.5 - 5 - 10 metres.

CONNECTION WITH H1 PLUG

FOR THE CONNECTORS SEE PAGE 85



VIEW OF MALE CONNECTOR **H1**:
1 = Brown / +
3 = Blue / –
4 = Black / output NPN-PNP / NO-NC

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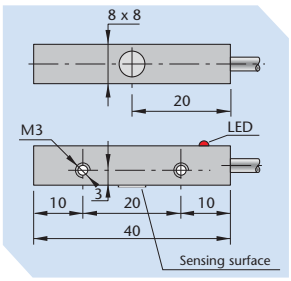
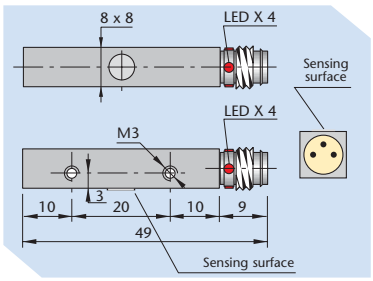
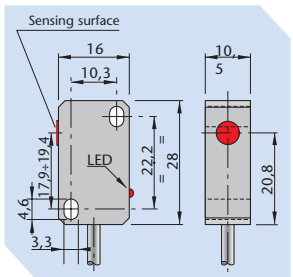
RECTANGULAR INDUCTIVE SENSORS SIPA8 - SIPC8 - SIP10

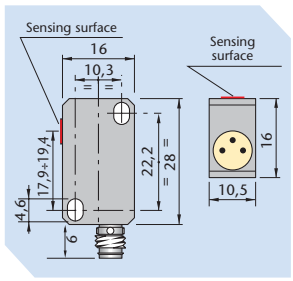
CE

3 WIRES D.C.
CONFORMING TO EN 50044
VERSION-C





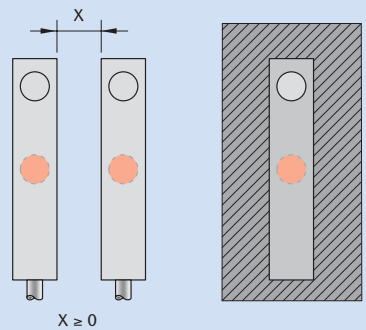




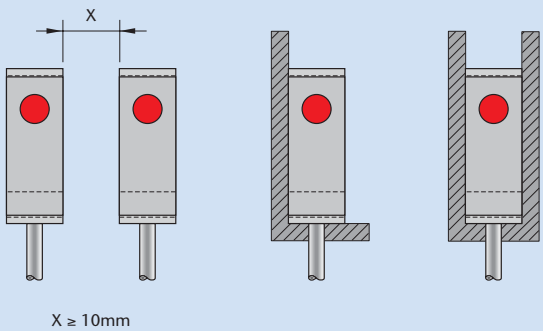
SIPC8 - C2 NPN NO	SIPC8 - C2 NPN NO H1	SIP10 - C2 NPN NO	SIP10 - C2 NPN NO H1
SIPC8 - C2 NPN NC	SIPC8 - C2 NPN NC H1	SIP10 - C2 NPN NC	SIP10 - C2 NPN NC H1
SIPC8 - C2 PNP NO	SIPC8- C2 PNP NO H1	SIP10 - C2 PNP NO	SIP10 - C2 PNP NO H1
SIPC8 - C2 PNP NC	SIPC8 - C2 PNP NC H1	SIP10 - C2 PNP NC	SIP10 - C2 PNP NC H1
2	2	2	2
6 ÷ 30		6 ÷ 30	
<10%		< 10%	
2000		1000	
≤ 3		≤ 3	
200		200	
<12		< 12	
<1.8		< 1.8	
Incorporated		Incorporated	
Incorporated		Incorporated	
- 25 ÷ + 70		- 25 ÷ + 70	
67	Depending on connector	67	Depending on connector
Anodized aluminium		Plastic	
3 x 0.14 mm²		3 x 0.14 mm²	
	H1		H1

INSTRUCTIONS FOR CORRECT INSTALLATION

TYPE **SIPA8 - SIPC8**



TYPE **SIP10**



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RECTANGULAR INDUCTIVE SENSORS SIP12 - SIP17 - SIP25

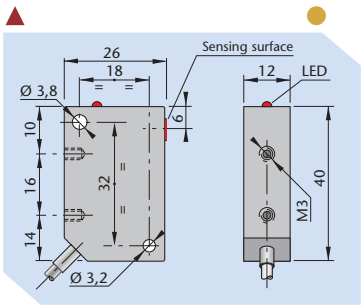
CE

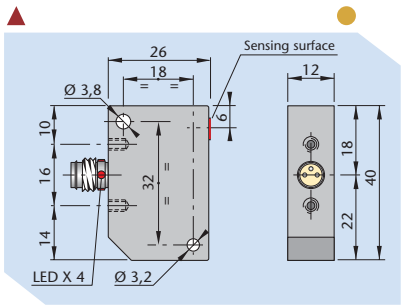
3/4 WIRES D.C.
CONFORMING TO EN 50044
VERSION-C

▲ **EMBEDDABLE** (FLUSH MOUNTING)
● **NOT EMBEDDABLE**
(NON FLUSH MOUNTING)

TECHNICAL CHARACTERISTICS

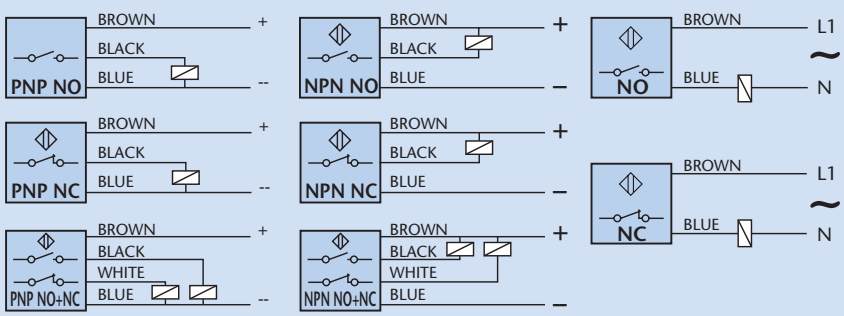
Dimensions mm





			▲	●	▲	●
AMPLIFIED 3 WIRES D.C.	NPN	NO			SIP12 - C2 NPN NO H1	SIP12 - CE4 NPN NO H1
		NC			SIP12 - C2 NPN NC H1	SIP12 - CE4 NPN NC H1
	PNP	NO			SIP12 - C2 PNP NO H1	SIP12 - CE4 PNP NO H1
		NC			SIP12 - C2 PNP NC H1	SIP12 - CE4 PNP NC H1
AMP. 4 WIRES D.C. ANTIPHASE	NPN	NO+NC	SIP12 - C2 NPN NO + NC	SIP12- CE4 NPN NO + NC		
	PNP	NO+NC	SIP12 - C2 PNP NO + NC	SIP12- CE4 PNP NO + NC		
AMPLIFIED 2 WIRES A.C.		NO				
		NC				
Switching distance (Sn)		mm	2	4	2	4
Continuous voltage (residual ripple ≤10%)		V	10 ÷ 30			
Alternating voltage 50÷60 Hz		V				
Hysteresis (%Sn)		mm	<10%			
Switching frequency		Hz	1000			
Repeatability		% of Sn	≤ 3			
Max output current		mA	200			
Min output current		mA				
Max peak current for 20 ms		A				
Absorption at 24Vdc		mA	<15			
Residual current		mA				
Voltage drop (sensor ON)		V	<1.8			
Short circuit protection			Incorporated			
Led			Incorporated			
Temperature limits		°C	- 25 ÷ + 70			
Degree of protection		IP	67			
Housing			Plastic			
Cable PVC		2m	4 x 0.25 mm²			
Connector plug						H1

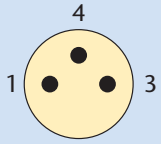
WIRING DIAGRAMS



N.B.: On request is available cable for sensors with different length 3.5 - 7.5 - 5 - 10 metres.

CONNECTION WITH H1 PLUG

FOR THE CONNECTORS SEE PAGE 85



VIEW OF MALE CONNECTOR **H1**:
1 = Brown / +
3 = Blue / –
4 = Black / output NPN-PNP / NO-NC

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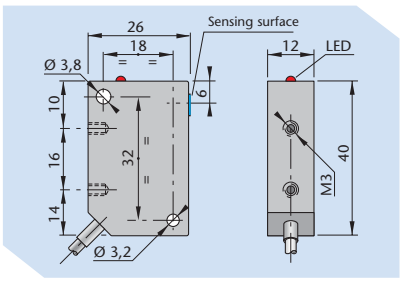
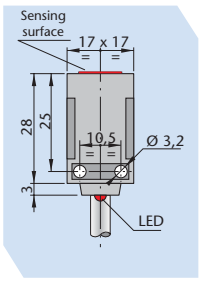
RECTANGULAR INDUCTIVE SENSORS SIP12 - SIP17 - SIP25

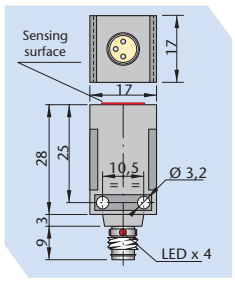
CE

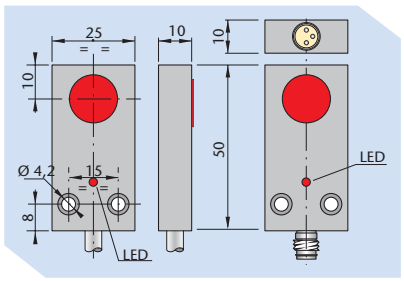
2 WIRES A.C.
CONFORMING TO EN 50044
VERSION-A

3/4 WIRES D.C.
CONFORMING TO EN 50044
VERSION-C





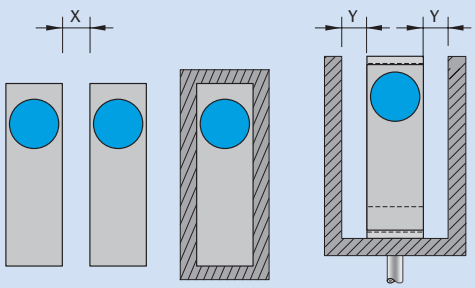




			SIP17 - CE5 NPN NO H1		SIP25 - C5 NPN NO H1
			SIP17 - CE5 NPN NC H1		SIP25 - C5 NPN NC H1
			SIP17 - CE5 PNP NO H1		SIP25 - C5 PNP NO H1
			SIP17 - CE5 PNP NC H1		SIP25 - C5 PNP NC H1
		SIP17 - CE5 NPN NO + NC		SIP25 - C5 NPN NO + NC	
		SIP17 - CE5 PNP NO + NC		SIP25 - C5 PNP NO + NC	
SIP12 - A2 NO SIP12 - A2 NC	SIP12 - AE4 NO SIP12 - AE4 NC				
2	4	5	5	5	5
		10 ÷ 30		10 ÷ 30	
20 ÷ 250					
<10%		<10%		<10%	
12		1000		1000	
≤ 3		≤ 3		≤ 3	
300		200		200	
5					
1.5					
		<15		<15	
<1					
<6		<1.8		<1.8	
		Incorporated		Incorporated	
Incorporated		Incorporated		Incorporated	
- 25 ÷ + 70		- 25 ÷ + 70		- 25 ÷ + 70	
67		67	Depending on connector	67	Depending on connector
Plastic		Plastic		Nickelled brass	
2 x 0.25 mm²		4 x 0.25 mm²		4 x 0.25 mm²	
			H1		H1

INSTRUCTIONS FOR CORRECT INSTALLATION

TYPE **SIP12**

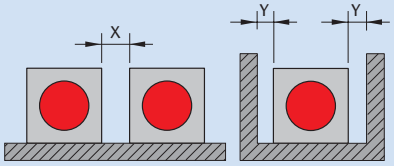


▲ X ≥ 6 mm
● X ≥ 12 mm

▲ = Possible
● = Not possible

▲ Y ≥ 0
● Y ≥ 6 mm

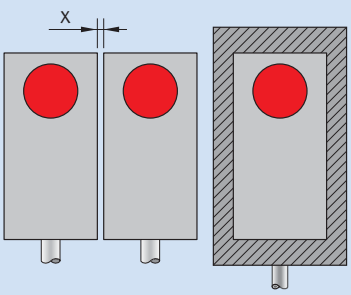
TYPE **SIP17**



● X ≥ 20 mm

● Y ≥ 6 mm

TYPE **SIP25**



▲ X ≥ 5 mm

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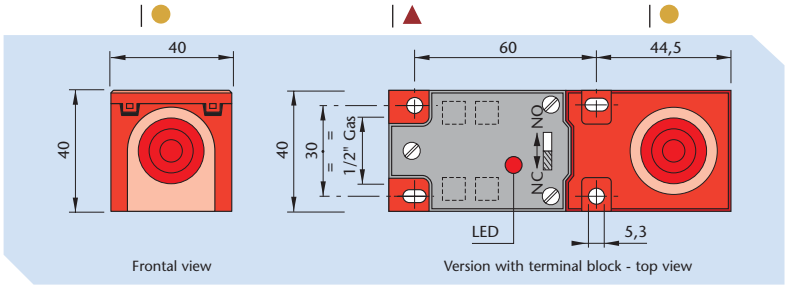
RECTANGULAR INDUCTIVE SENSORS SIP40

CE

4 WIRES D.C.
CONFORMING TO EN 50025 - EN 50044
VERSION-C

▲ **EMBEDDABLE** (FLUSH MOUNTING)
● **NOT EMBEDDABLE**
(NON FLUSH MOUNTING)

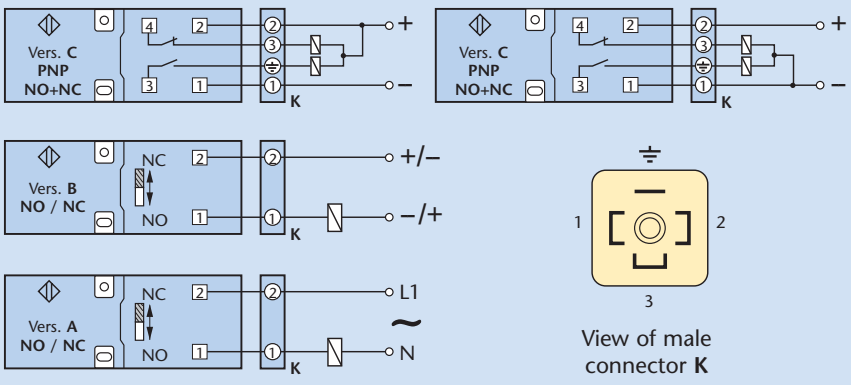


TECHNICAL CHARACTERISTICS

Dimensions mm

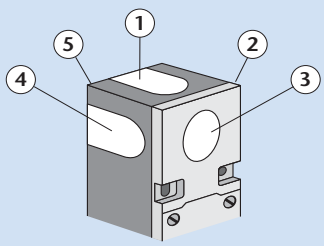
			▲	●	▲	●
AMPLIFIED 4 WIRES D.C. ANTIPHASE	NPN	NO+NC	SIP40 - C15 NPN NO + NC	SIP40 - CE20 NPN NO + NC	SIP40 - C15 NPN NO + NC K	SIP40 - CE20 NPN NO + NC K
	PNP	NO+NC	SIP40 - C15 PNP NO + NC	SIP40 - CE20 PNP NO + NC	SIP40 - C15 PNP NO + NC K	SIP40 - CE20 PNP NO + NC K
AMPLIFIED 2 WIRES D.C. PROGR.		NO/NC				
AMPLIFIED 2 WIRES A.C. PROGR.		NO/NC				
Switching distance Sn		mm	15	20	15	20
Continuous voltage (residual ripple ≤10%)		V	10 ÷ 55			
Alternating voltage 50÷60 Hz		V				
Hysteresis (%Sn)		mm	< 10%			
Switching frequency		Hz	300			
Repeatability		% of Sn	≤ 3			
Max output current		mA	200			
Min output current		mA				
Max peak current for 20 mS		A				
Absorption at 24Vdc		mA	< 10			
Residual current		mA				
Voltage drop (sensor ON)		V	< 1.8			
Short circuit protection			Incorporated			
Led			Incorporated			
Temperature limits		°C	- 25 ÷ + 70			
Degree of protection		IP	65 (Cable version IP67)			
Housing			Red plastic			
Type of connection			Terminal block			
Connector plug					K (type 12)	

TYPES OF CONNECTIONS WITH TERMINAL BLOCK OR CONNECTOR K (type 12 - page 85)



View of male connector **K**

ADJUSTABLE SENSITIVITY



NOTE: In the SIP 40 sensor the oscillator is contained in a module which clips into the body whose surface can then be sensitive on five different positions. The surface chosen can be identified by applying the circular adhesive label.

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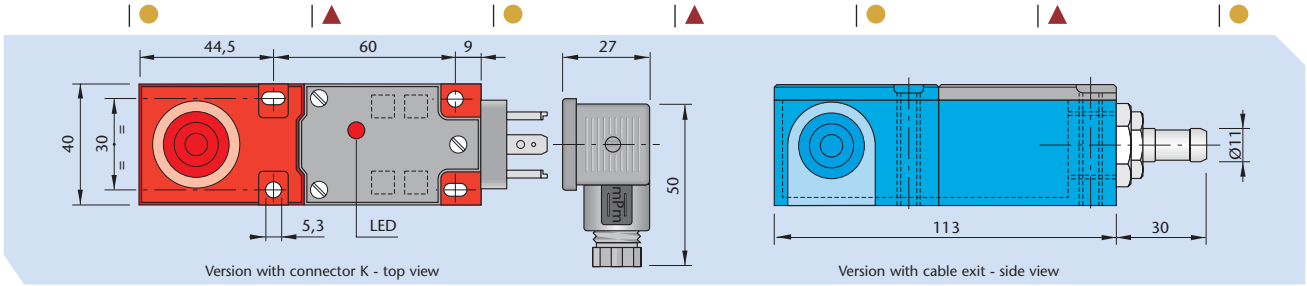
RECTANGULAR INDUCTIVE SENSORS SIP 40

CE

2 WIRES D.C.
CONFORMING TO EN 50044
VERSION-B

2 WIRES A.C.
CONFORMING TO EN 50037 EN 50044
VERSION-A

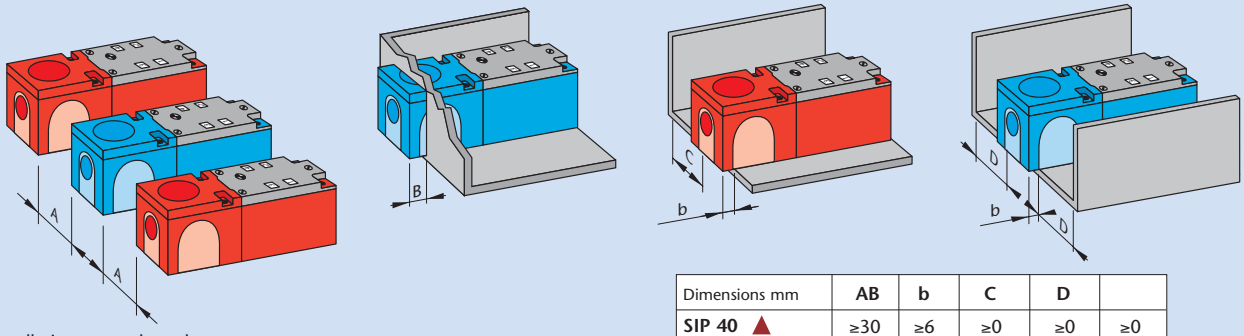


Version with connector K - top view

Version with cable exit - side view

SIP40-B15 NO/NC	SIP40-BE20 NO/NC	SIP40-B15 NO/NC K	SIP40-BE20 NO/NC K				
				SIP40-A15 NO/NC	SIP40-AE20 NO/NC	SIP40-A15 NO/NC K	SIP40-AE20 NO/NC K
15	20	15	20	15	20	15	20
10 ÷ 55							
				20 ÷ 250			
< 10%				< 10%			
300				12			
≤ 3				≤ 3			
100				300			
1.5				5			
				1.5			
< 0.6				< 1			
< 6.5				< 6			
Incorporated							
Incorporated				Incorporated			
- 25 ÷ + 70				- 25 ÷ + 70			
65 (Cable version IP67)				65 (Cable version IP67)			
Red plastic				Blue plastic			
Terminal block				Terminal block			
		K (type 12)				K (type 12)	

INSTRUCTIONS FOR CORRECT INSTALLATION



• The installation example makes reference to the areas marked red.

Dimensions mm	AB	b	C	D	
SIP 40 ▲	≥30	≥6	≥0	≥0	≥0
SIP 40 ●	≥50	≥40	≥15	≥10	≥15

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