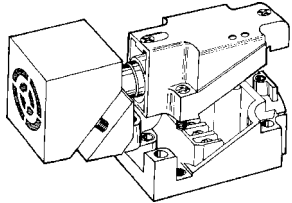
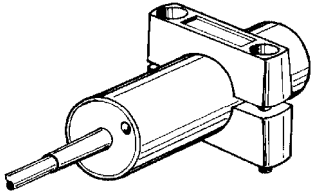
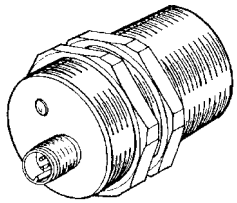
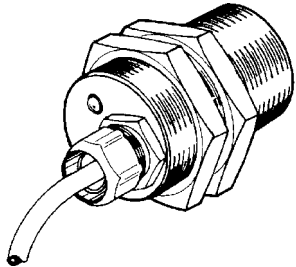
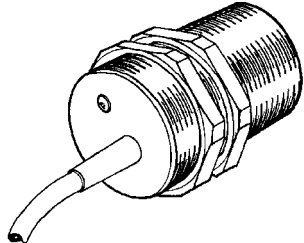
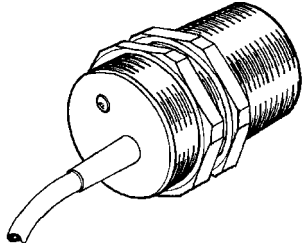


Inductive Proximity Switches

2 or 4 wire connection - all current or PNP - cable or plug connection - short-circuit proof

Type:	Q UniProx	H Ø 34 mm	Z PG 36
			
Sensing distance:	20 mm	20 mm	20 mm
Adjustable:	no	no	no
Type of installation:	non-flush mount	non-flush mount	flush mount
Housing material:	Plastic	Plastic	Brass, nickel plated
Dimensions:	40 x 40 x 120 mm	Ø 34 x 80 mm	PG36 x 70 mm
Fastening:	4 x Ø5,3 mm, 60 x 30 mm	incl. Fixing clamp	Ø 47 mm, incl. 2 nuts
Protection type:	IP 67	IP 67	IP 67
Switching frequency:	250 Hz (DC) / 50 Hz (AC)	250 Hz (DC) / 50 Hz (AC)	100 Hz (DC) / 50 Hz (AC)
Type AC/DC 2-wire:	IKQ 020.05 G *	IKH 020.05 G	IKZ 471.05 G
Type DC 3/4-wire:	IKQ 020.38 G S4	IKH 020.38 G S4	IKZ 471.38 G S4
Note:	changeable to 5 positions *programmeable as normally-closed		

Type:	Z PG 36	Z PG 36	Z PG 36
			
Sensing distance:	20 mm	20 mm	25 mm
Adjustable:	no	no	no
Type of installation:	flush mount	flush mount	quasi flush mount
Housing material:	Brass, nickel plated	Brass, nickel plated	Brass, nickel plated
Dimensions:	PG36 x 70 mm	PG36 x 70 mm	PG36 x 70 mm
Fastening:	Ø 47 mm, incl. 2 nuts	Ø 47 mm, incl. 2 nuts	Ø 47 mm, incl. 2 nuts
Protection type:	IP 67	IP 67	IP 67
Switching frequency:	100 Hz (DC) / 50 Hz (AC)	50 Hz	100 Hz (DC) / 50 Hz (AC)
Type AC/DC 2-wire:	IKZ 472.05 MG	IKZ 474.05 G	IKZ 475.05 G
Type DC 3/4-wire:	IKZ 472.38 MG		IKZ 475.38 G S4
Note:	Hose screwing 5/16" Mannesmann works standard	with protective earth	increased sensing distance

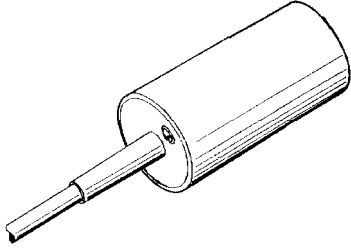
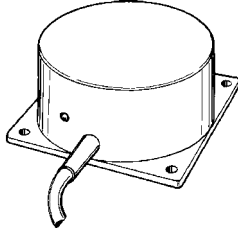
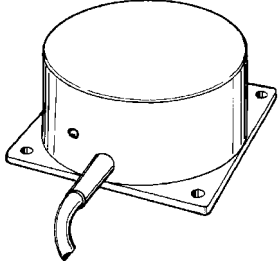
The advantages of the AC/DC 2-wire connection are the wide and universal voltage range and the wire saving installation. The residual current of 1,7 mA due to the load and the voltage drop of 9V over the switch in case of low mains voltage are to be observed.

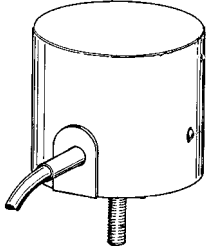
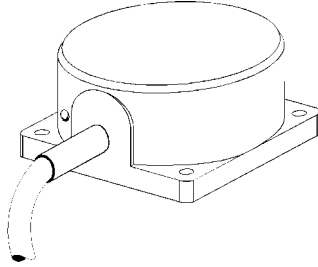
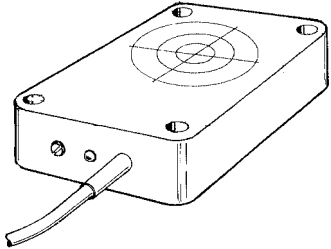
Apart from the wide voltage range the DC technology offers the possibility to apply the normally-open and normally-closed outputs separately or linked

Connection technology

Type DC 3/4 wire (...38 G S4): built-in unit plug M 12x1; type AC/DC 2-wire (...05 G): 2m cable connection

Sensing distance 20 - 60 mm

Type:	H \varnothing 54 mm	G \varnothing 80 mm Aluminium housing	D \varnothing 100 mm Aluminium housing
			
Sensing distance:	35 mm	40 mm	45 mm
Adjustable:	no	no	no
Type of installation:	non-flush mount	flush mount	flush mount
Housing material:	Plastic	Aluminium	Aluminium
Dimensions:	\varnothing 54 x 70 mm	80 x 80 x 40 mm	110 x 110 x 55 mm
Fastening:	fixing clamp not incl.	4 x \varnothing 5,5 mm, 65 x 65 mm	4 x \varnothing 5,5 mm, 90 x 90 mm
Protection type:	IP 67	IP 67	IP 67
Switching frequency:	100 Hz (DC) / 50 Hz (AC)	100 Hz (DC) / 25 Hz (AC)	100 Hz (DC) / 15 Hz (AC)
Type AC/DC 2-wire:	IKH 035.05 G	IKG 040.05 G	IKD 045.05 G
Type DC 3/4-wire:	IKH 035.38 G S4	IKG 040.38 G S4	IKD 045.38 G S4
Note:	Accessories: fixing clamp, Art.-Nr. 9814A available acc. to MRW works standard	WG 250 also as rolling-mill type	WG 250 also as rolling-mill type

Type:	J \varnothing 80 mm	K \varnothing 80 mm	RD 80 x 120 mm
			
Sensing distance:	50 mm	50 mm / 60 mm	50 mm
Adjustable:	no	no / yes	yes
Type of installation:	non-flush mount	non-flush mount	non-flush mount
Housing material:	Plastic	Plastic	Plastic
Dimensions:	\varnothing 80 x 67 mm	80 x 80 x 40 mm	80 x 120 x 30
Fastening:	Centralscrew (VA) M8 x 32	4 x \varnothing 5,3 mm, 65 x 65 mm	4 x \varnothing 5,5 mm, 100 x 60 mm
Protection type:	IP 67	IP 67	IP 67
Switching frequency:	100 Hz (DC) / 25 Hz (AC)	100 Hz (DC) / 25 Hz (AC)	100 Hz (DC) / 25 Hz (AC)
Type AC/DC 2-wire:	IKJ 050.05 G	IKK 050.05 G	IKRD 050.05 G
Type DC 3/4-wire:	IKJ 050.38 G S4	IKK 050.38 G S4	IKRD 050.38 G S4
Note:	also for motor-car works standard		flat design, therefore potentiometer for adjustment after installation

Deviating types available acc. to works standard of Mannesmannröhren Werke AG, Thyssen, Hoesch, HKM and others. Temperature ranges from -40 °C to +100 °C and other customer-specific specifications.

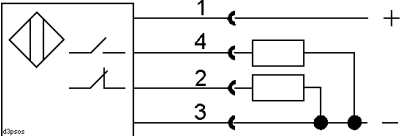
Connection technology

Type DC 3/4 wire (...38 G S4): built-in unit plug M 12x1; type AC/DC 2-wire (...05 G): 2m cable connection

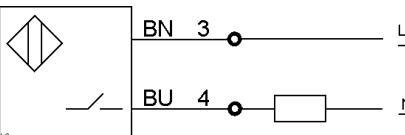
Itemgroup 220

Inductive proximity switches are sensors which react upon presence or absence of metallic objects within their range of supervision. An alternating field of high frequency leaves at the active surface and is influenced and evaluated dependent on distance and properties of metallic objects. The types of itemgroup 220 comprise executions of a sensing distance of 20 to 60 mm. By means of 2 electric variations only with universal voltage ranges all customary controlling tasks can be managed. The pulsing Proxitron protection against short-circuit offers safety against destruction of 2-wire units for AC and DC for mains from 24 V to 240 V. 3-wire designs are protected against short-circuit in case of mains from 12 V to 48 V. Depending on the degree of overload the electronic protection against short-circuit automatically returns to its normal mode of operation after max. 30 s. During this time the blinking LED indicates the trouble. Apart from the universal types already many designs acc. to customer's specification are in operation and are listed in works standards. Their fields of application are to be found in all ranges of industrial automation. If required we shall be glad to place detailed individual data sheets at your disposal.

DC-type

Output	PNP n. o. and n. c.
Supply voltage	10 - 55 V DC
Ripple voltage	max. 15 %
Load current max.	0 - 400 mA
Short-time load current	2 A / 10 ms; 0,8 A / 100 ms
Short circuit protection	yes, pulsing
Residual current	< 10 mA
Voltage drop	1,5 V / 50 mA
Switching hysteresis	1 - 15 %
Ambient temperature	-25 to +70 °C
Connection	Plug S4, M12 x 1
Diagram of connections	DC 4-wire PNP n.o. + n.c. 

AC/DC-type

Output	normally open
Supply voltage	20 - 260 V AC/DC
Power frequency	40 - 440 Hz
Ripple voltage	max 15 % (DC)
Load current max.	5 - 400 mA
Short-time load current	2 A / 10 ms; 0,8 A / 100 ms
Short circuit protection	yes, pulsing
Residual current	1,7 mA / 260 V AC; 1,0 mA / 24 V DC
Voltage drop	9 V
Switching hysteresis	1 - 15 %
Ambient temperature	-25 to +70 °C
Connection	2 m cable
Diagram of connections	AC/DC 2-wire norm. open 

Range of products



Since 1979 Proxitron has been developing and manufacturing sensors. Sturdy construction and continuous quality control guarantee maximum reliability.

www.proxitron.de

**Itemgroup
Inductive proximity switches**

- WG 210 Sensing distance < 20 mm
- WG 220 Sensing distance 20-60 mm
- WG 230 Sensing distance 60-120 mm
- WG 240 Sensor Strips
- WG 241 Surface Sensors
- WG 250 Ring-sensors
- WG 260 Inductive analog sensors and evaluation electronics

**Itemgroup
Other sensors**

- WG 100 Capacitive Sensors
- WG 510 Piro Light barriers
- WG 610 Piro Infrared-sensors
- WG 620 Piro for fibre optics
- WG 630 Piro Infrared pyrometers
- WG 800 Flow-sensors for air
- WG 830 Flow-sensors

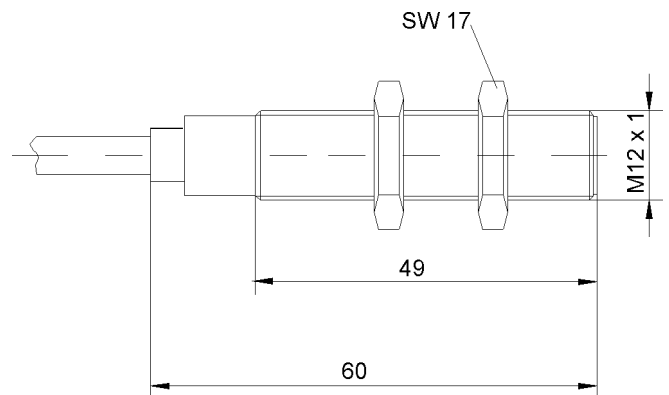
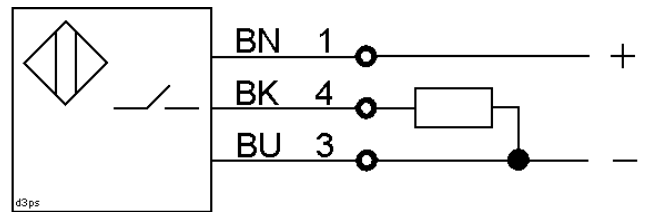
Short circuit protected proximity switch with increased temperature range and M12 metal housing.

upto +150 °C

Technical Data

Type	IKZ 122.23 GH
Art.-No.	2465A
Rated operating distance (Sn)	3 mm
Operating distance adjustable	no
Output	PNP n. o.
Target steel St37, 1 mm thick	12 x 12 mm
Location at metal	flush
Supply voltage (UB)	10 - 30 V DC
Ripple voltage	< 15 %
Load current max.	120 mA / +100 °C 70 mA / +150 °C
Short circuit protection	yes
Voltage drop (Ud)	2 V
Operating frequency (f)	200 Hz
Switching hysteresis (H)	max. 15 %
Ambient temperature	-25 ... +150 °C
Protection class	IP 67
Connection	2 m silicone cable
Function display	no
Housing material	stainless steel

Diagram of Connections



Proximity switch with M18 metal-housing for lower operating distances.

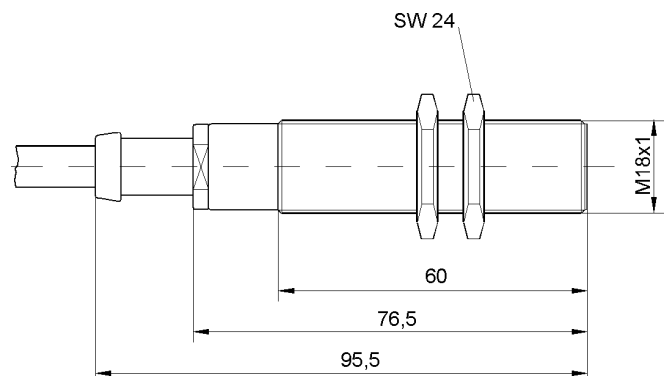
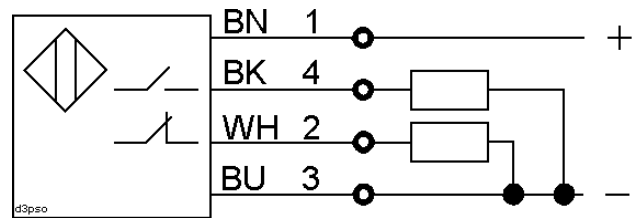
upto +120 °C

The Sensor is suitable for higher ambient temperature by the increased temperature range.

Technical Data

Type	IKZ 182.28 H
Connection	Art.-No.
5 m silicone cable	2229H-5
Rated operating distance (Sn)	5 mm
Output	PNP n. o. + n. c.
Target steel St37, 1 mm thick	18 x 18 mm
Location at metal	flush
Supply voltage (UB)	10 - 30 V DC
Ripple voltage	< 15 %
Load current max.	0 - 400 mA <70 °C 0 - 150 mA >70 °C
Short circuit protection	no
No load current (I ₀)	≤ 25 mA
Voltage drop (U _d)	≤ 1,5 V
Operating frequency (f)	200 Hz
Switching hysteresis (H)	max. 15 %
Ambient temperature	-25 ... +120 °C
Protection class	IP 67 on active surface
Function display	no
Housing material	brass, nickel plated

Diagram of Connections



upto + 175 °C

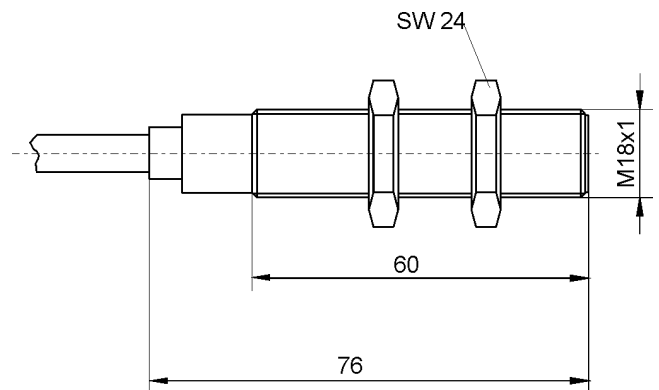
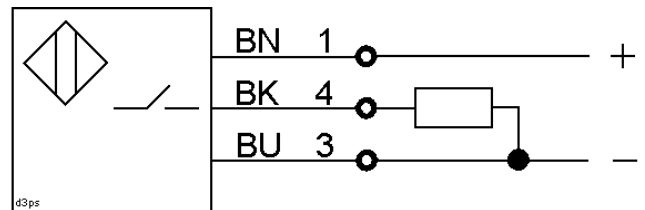
Short circuit protected proximity switch with M18 metal-housing for lower operating distances.

The Sensor is suitable for higher ambient temperature by the increased temperature range.

Technical Data

Type	IKZ 182.23 GH
Art.-No.	2229D
Rated operating distance (S _n)	5 mm
Output	PNP n. o.
Target steel St37, 1 mm thick	18 x 18 mm
Location at metal	flush mount
Supply voltage (U _B)	10 - 30 V DC
Ripple voltage	< 10 %
Load current max.	0 - 150 mA
Short circuit protection	yes, pulsing
Voltage drop (U _d)	2 V
Operating frequency (f)	400 Hz
Switching hysteresis (H)	max. 15 %
Ambient temperature	-40 ... +175 °C
Protection class	IP 67
Connection	2m silicone cable
Function display	no
Housing material	stainless steel

Diagram of Connections



Proximity switch with M30 metal-housing for lower operating distances.

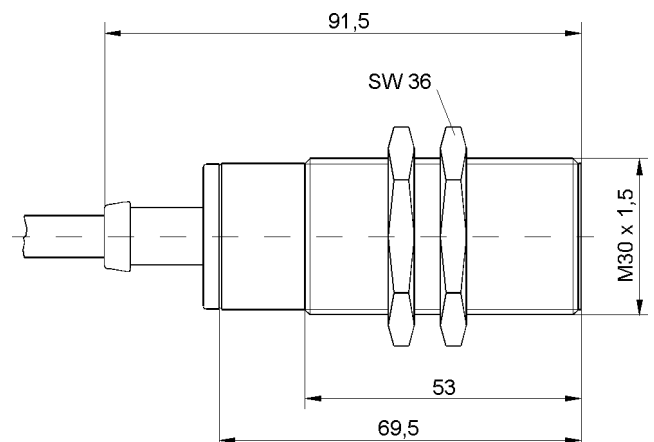
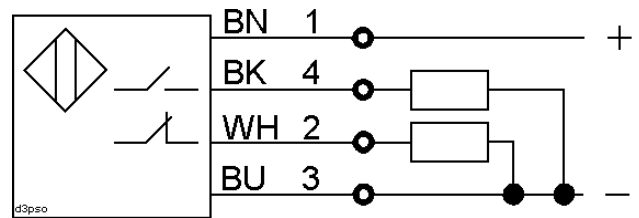
upto +120 °C

The Sensor is suitable for higher ambient temperature by the increased temperature range.

Technical Data

Type	IKZ 302.28 H
Connection	Art.-No.
5 m silicone cable	23740-5
Rated operating distance (Sn)	10 mm
Output	PNP n. o. + n. c.
Target steel St37, 1 mm thick	30 x 30 mm
Location at metal	flush
Supply voltage (UB)	10 - 30 V DC
Ripple voltage	< 15 %
Load current max.	0 - 400 mA <70 °C 0 - 150 mA >70 °C
Short circuit protection	no
No load current (I ₀)	≤ 15 mA
Voltage drop (U _d)	≤ 1,5 V
Operating frequency (f)	300 Hz
Switching hysteresis (H)	max. 15 %
Ambient temperature	-25 ... +120 °C
Protection class	IP 67 on active surface
Function display	no
Housing material	brass, nickel plated

Diagram of Connections



upto + 175 °C

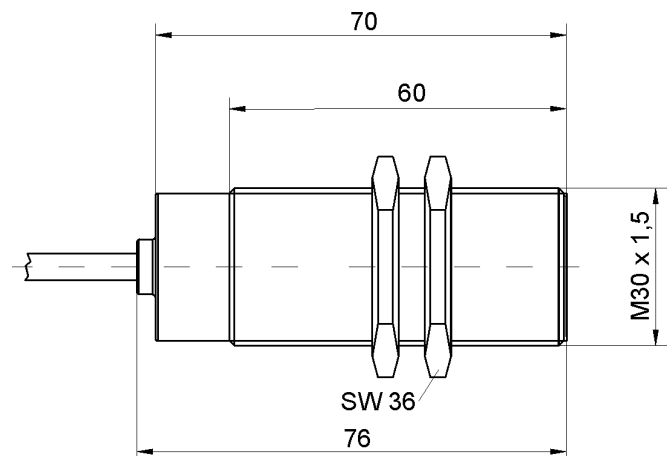
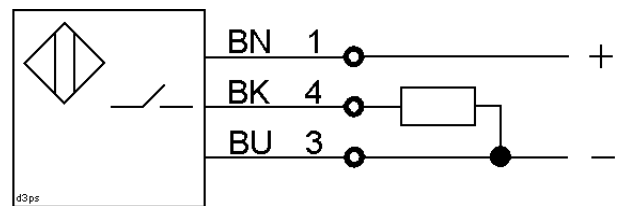
Short circuit protected proximity switch with M30 metal-housing for lower operating distances.

The Sensor is suitable for higher ambient temperature by the increased temperature range.

Technical Data

Type	IKZ 302.23 GH
Art.-No.	2374G
Rated operating distance (Sn)	10 mm
Output	PNP n. o.
Operating distance adjustable	no
Target steel St37, 1 mm thick	30 x 30 mm
Location at metal	shielded
Supply voltage (UB)	10 - 30 V DC
Ripple voltage	< 15 %
Load current max.	0 - 150 mA
Short circuit protection	yes, pulsing
Voltage drop (Ud)	2 V
Operating frequency (f)	200 Hz
Switching hysteresis (H)	max. 15 %
Ambient temperature	-40 ... +175 °C
Protection class	IP 67
Connection	2 m silicone cable
Function display	no
Housing material	stainless steel

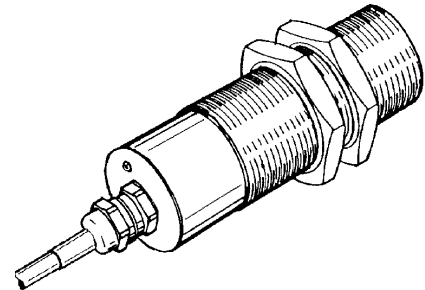
Diagram of Connections



Short circuit protected proximity switch for
10 – 55 V DC with 3-wire technology.
PNP – normally open

The Sensor is suitable for higher ambient
temperature by the increased temperature
range.

upto +100 °C



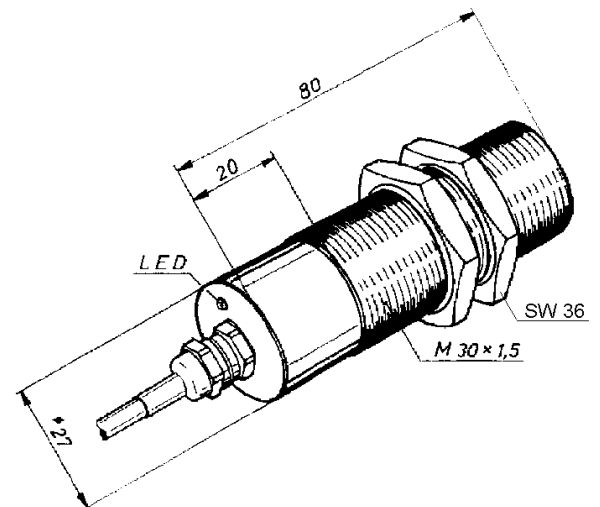
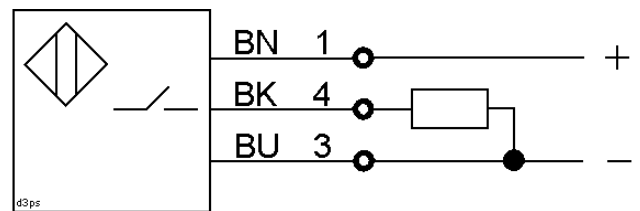
Technical Data

Type	IKL 015.33 GH
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Connection	Art.-No.
2 m silicone cable (SIK)	2319D
5 m silicone cable (SIK)	2319D-5
10 m silicone cable (SIK)	2319D-10
15 m silicone cable (SIK)	2319D-15
20 m silicone cable (SIK)	2319D-20

Rated operating distance (S _n)	15 mm
Output	PNP n. o.
Operating distance adjustable	no
Target steel St37, 1 mm thick	45 x 45 mm
Location at metal	non flush
Supply voltage (U _B)	10 - 55 V DC
Ripple voltage	max. 15 %
Load current max.	0 - 400 mA
Short- time load current	0,8 A / 100 ms 2 A / 10 ms
Short circuit protection	yes, pulsing
No load current (I ₀)	< 10 mA
Voltage drop (U _d)	1,5 V / 50 mA
Operating frequency (f)	200 Hz
Switching hysteresis (H)	1 - 15 %
Ambient temperature	-20 ... +100 °C
Protection class	IP 67
Function display	LED
Housing material	plastic PBT

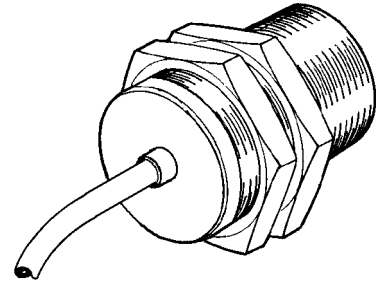
Diagram of Connections



upto + 175 °C

Short circuit protected proximity switch with M50 metal-housing for lower operating distances.

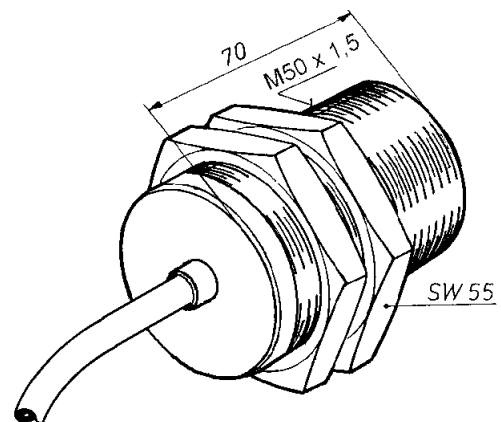
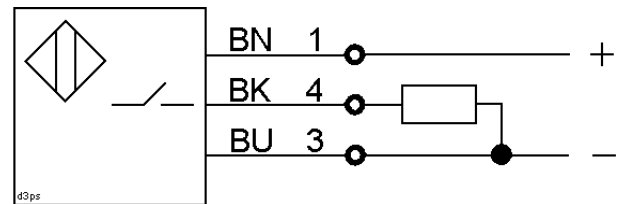
The Sensor is suitable for higher ambient temperature by the increased temperature range.



Technical Data

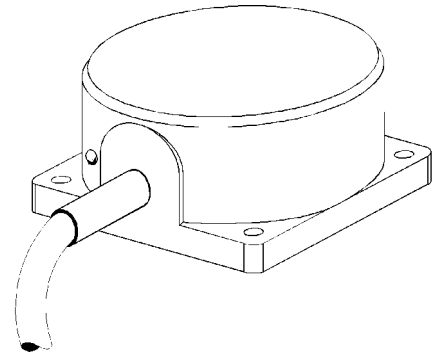
Type	IKZ 506.23 GH
Art.-No.	2471A
Rated operating distance (Sn)	20 mm
Operating distance	20 mm +/-20%
Output	PNP n. o.
Target steel St37, 1 mm thick	60 x 60 mm
Location at metal	free zone 10 mm necessary
Supply voltage (UB)	10 - 30 V DC
Ripple voltage	< 15 %
Load current max.	0 - 150 mA
Short circuit protection	yes
Voltage drop (Ud)	2 V
Current consumption	max. 8 mA / 24 V
Operating frequency (f)	100 Hz
Switching hysteresis (H)	3 - 20 %
Ambient temperature	-25 ... +175 °C
Protection class	IP 67
Connection	2 m silicone cable
Function display	no
Housing material	stainless steel 1.4305

Diagram of Connections



Short circuit protected proximity switch with 2-wire technology for higher operating distances.

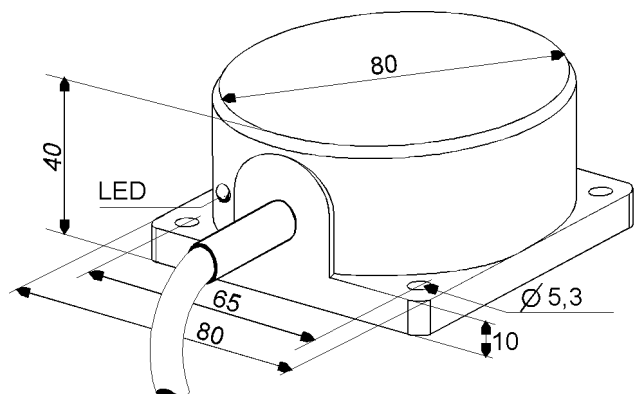
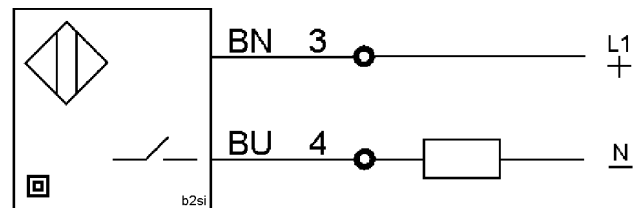
upto +100 °C



Technical Data

Type	IKK 050.05 GH
Art.-No.	20441
Rated operating distance (Sn)	50 mm
Output	normally open
Operating distance adjustable	no
Target steel St37, 1 mm thick	150 x 150 mm
Location at metal	non flush
Supply voltage (UB)	20 - 260 V AC/DC
Power frequency	40 - 440 Hz
Ripple voltage	max. 15 % (DC)
Load current max.	5 - 400 mA
Short- time load current	0,8 A / 100 ms 2 A / 10 ms
Short circuit protection	yes
Residual current (Ir)	1,7 mA / 260 V AC 1,0 mA / 24 V DC
Voltage drop (Ud)	9 V
Operating frequency (f) AC/DC	25 Hz / 100 Hz
Switching hysteresis (H)	1 - 15 %
Ambient temperature	-25 ... +100 °C
Protection class	IP 67*
Connection	2m silicone cable
Function display	LED
Housing material	plastic PBT

Diagram of Connections

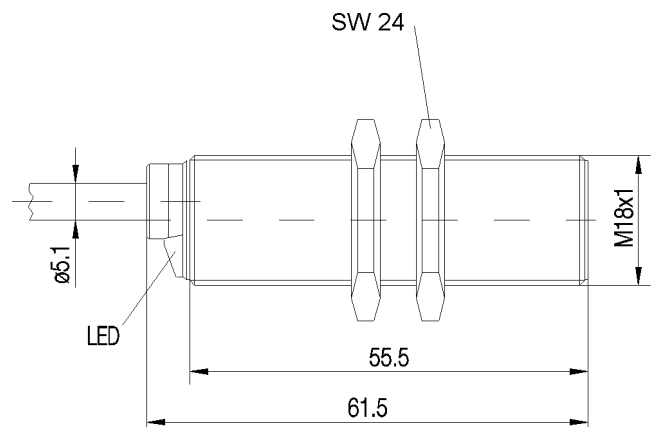
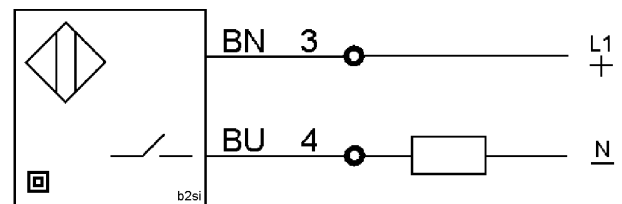


Short circuit protected proximity switch with M18 brass housing and AC/DC 2-wire technology.

Technical Data

Type	IKZ 182.05 G
Art.-No.	2229F
Rated operating distance (Sn)	5 mm
Output	normally open
Operating distance adjustable	no
Target steel St37, 1 mm thick	18 x 18 mm
Location at metal	flush
Supply voltage (UB)	20 - 250 V AC/DC
Load current max.	5 - 250 mA
Short- time load current	2 A / 20 ms
Short circuit protection	yes
Residual current (Ir)	1,7 mA / 110 V AC
Voltage drop (Ud)	≤ 10,5 V
Operating frequency (f)	250 Hz
Switching hysteresis (H)	1 - 15 %
Ambient temperature	-25 ... +70 °C
Protection class	IP 67
Connection	3 m cable
Function display	LED
Housing material	Brass, nickel plated

Diagram of Connections

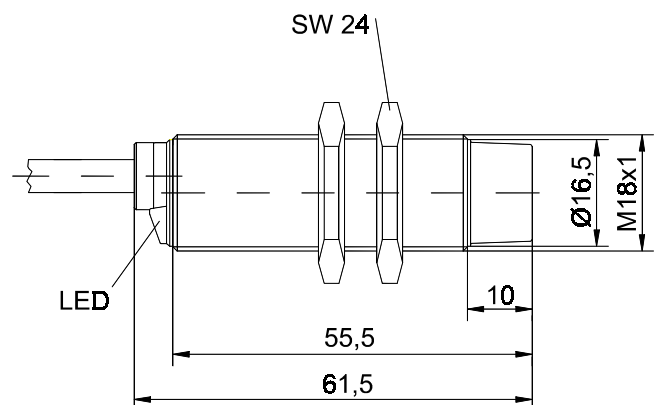
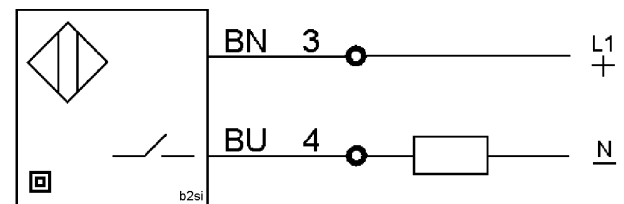


Short circuit protected proximity switch with M18 brass housing and AC/DC 2-wire technology.

Technical Data

Type	IKZ 181.05 G
Art.-No.	2229C
Rated operating distance (Sn)	8 mm
Output	normally open
Operating distance adjustable	no
Target steel St37, 1 mm thick	24 x 24 mm
Location at metal	non flush
Supply voltage (UB)	20 - 250 V AC/DC
Load current max.	5 - 250 mA
Short- time load current	2 A / 20 ms
Short circuit protection	yes
Residual current (Ir)	1,7 mA / 110 V AC
Voltage drop (Ud)	≤ 10,5 V
Operating frequency (f)	250 Hz
Switching hysteresis (H)	1 - 15 %
Ambient temperature	-25 ... +70 °C
Protection class	IP 67
Connection	3 m cable
Function display	LED
Housing material	Brass, nickel plated

Diagram of Connections

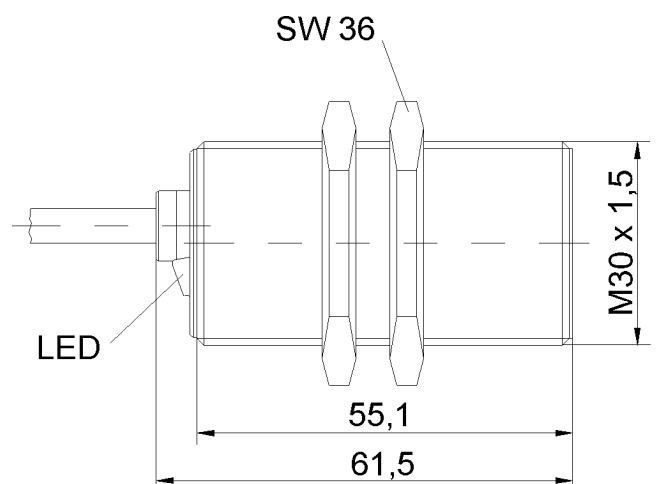
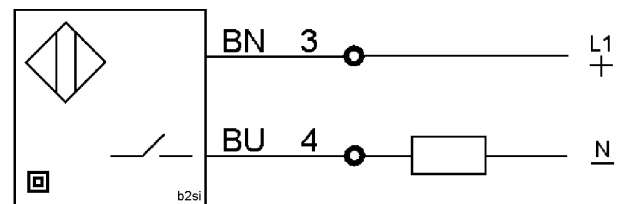


Short circuit protected proximity switch with M30 brass housing and AC/DC 2-wire technology.

Technical Data

Type	IKZ 302.05 G
Art.-No.	2374A
Rated operating distance (Sn)	10 mm
Output	normally open
Operating distance adjustable	no
Target steel St37, 1 mm thick	30 x 30 mm
Location at metal	flush
Supply voltage (UB)	20 - 250 V AC/DC
Load current max.	5 - 250 mA
Short- time load current	2 A / 20 ms
Short circuit protection	yes
Residual current (Ir)	1,7 mA / 110 V AC
Voltage drop (Ud)	9 V
Operating frequency (f)	≤ 150 Hz
Switching hysteresis (H)	1 - 15 %
Ambient temperature	-25 ... +70 °C
Protection class	IP 67
Connection	3 m cable
Function display	LED
Housing material	Brass, nickel plated
Further available designs:	Type:
with 5 m cable	IKZ 302.05 G
Art.-No.	2374A-5

Diagram of Connections



Short circuit protected proximity switch for

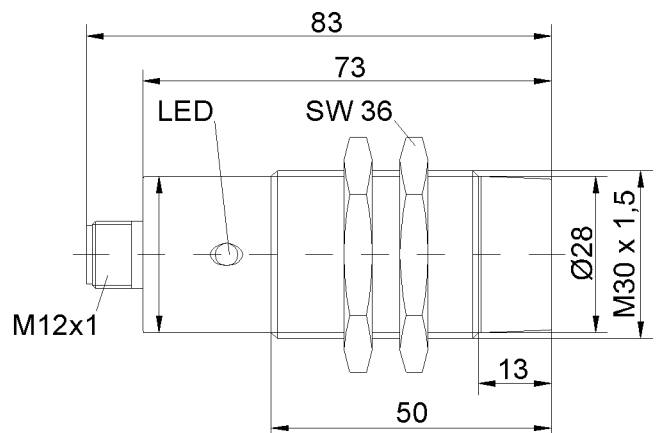
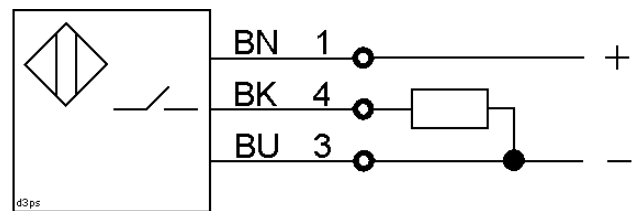
10 – 30 V DC with 3-wire technology.

PNP – normally open

Technical Data

Type	IKZ 301.23 G S4
Art.-No.	2469A
Rated operating distance (Sn)	15 mm
Output	normally open
Operating distance adjustable	no
Target steel St37, 1 mm thick	45 x 45 mm
Location at metal	non flush
Supply voltage (UB)	10 - 30 V DC
Ripple voltage	max. 15 % (DC)
Load current max.	0 - 200 mA
Short circuit protection	yes
No load current (I ₀)	≤ 25 mA
Voltage drop (U _d)	≤ 2,5 V
Operating frequency (f)	100 Hz
Switching hysteresis (H)	1 - 15 %
Ambient temperature	-25 ... +70 °C
Protection class	IP 68
Connection	plug S4
Function display	LED
Housing material	brass, nickel plated
Accessories (please order separately)	Art.-No.
Suitable angular connector with moulded 2 m connection cable	9841D

Diagram of Connections



Short circuit protected proximity switch with AC/DC 2-wire technology.

Technical Data

Type	IKL 010.05 G
Art.-No.	2434C
Rated operating distance (Sn)	10 mm
Output	normally open
Operating distance adjustable	no
Target steel St37, 1 mm thick	30 x 30 mm
Location at metal	flush
Supply voltage (UB)	20 - 260 V AC/DC
Power frequency	40 - 440 Hz
Ripple voltage	max. 15 % (DC)
Load current max.	5 - 400 mA
Short- time load current	0,8 A / 100 ms 2 A / 10 ms
Short circuit protection	yes
Residual current (Ir)	1,7 mA / 260 V AC 1,0 mA / 24 V DC
Voltage drop (Ud)	9 V
Operating frequency (f) AC/DC	25 Hz / 200 Hz
Switching hysteresis (H)	1 - 15 %
Ambient temperature	-25 ... +70 °C
Protection class	IP 67
Connection	2m cable
Function display	LED
Housing material	plastic PBT

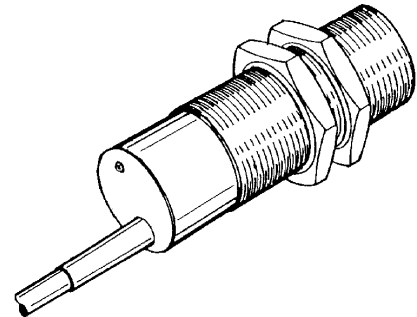
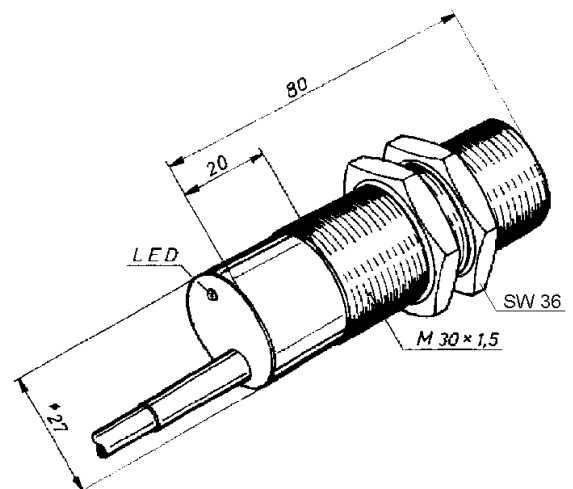
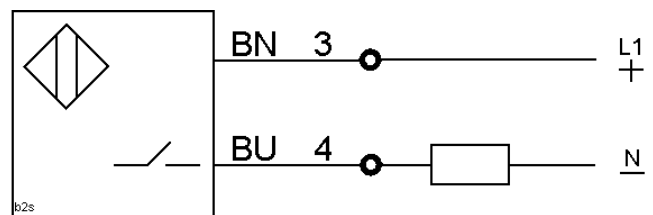


Diagram of Connections



Short circuit protected proximity switch with AC/DC 2-wire technology.

Technical Data

Type	IKL 015.05 G
Art.-No.	2377B
Rated operating distance (Sn)	15 mm
Output	normally open
Operating distance adjustable	no
Target steel St37, 1 mm thick	45 x 45 mm
Location at metal	non flush
Supply voltage (U _B)	20 - 260 V AC/DC
Power frequency	40 - 440 Hz
Ripple voltage	max. 15 % (DC)
Load current max.	5 - 400 mA
Short- time load current	0,8 A / 100 ms 2 A / 10 ms
Short circuit protection	yes
Residual current (I _r)	1,7 mA / 260 V AC 1,0 mA / 24 V DC
Voltage drop (U _d)	9 V
Operating frequency (f) AC/DC	25 Hz / 200 Hz
Switching hysteresis (H)	1 - 15 %
Ambient temperature	-25 ... +70 °C
Protection class	IP 67
Connection	2m cable
Function display	LED
Housing material	plastic PBT
Further available designs:	Type:
with ambient temperature +100° C and 2m silicone cable	IKL 015.05 GH

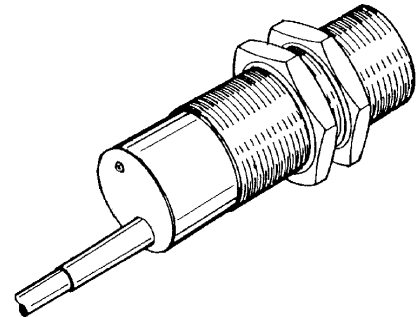
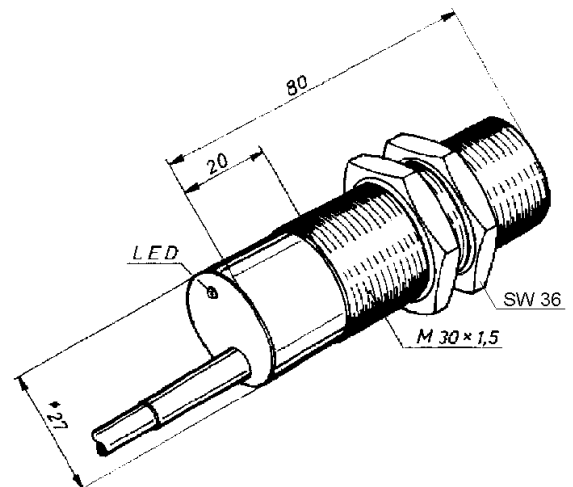
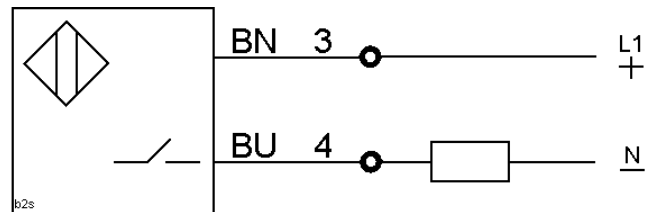
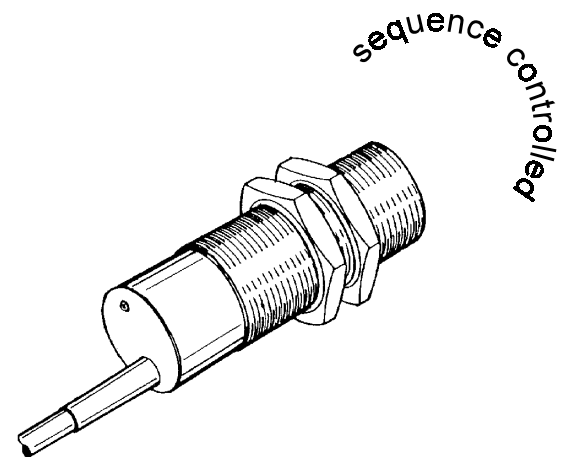


Diagram of Connections



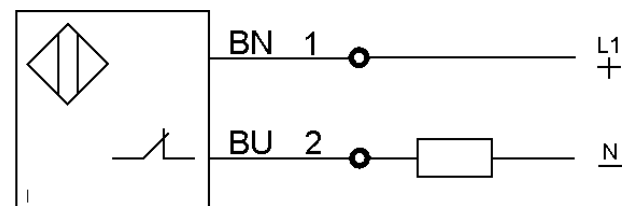
Program-controlled proximity switch in all-current technology in M 30 casing of plastic material for progress control, e. g. in advertising displays.
The integrated controller has the function of a sophisticated external control.



Technical Data

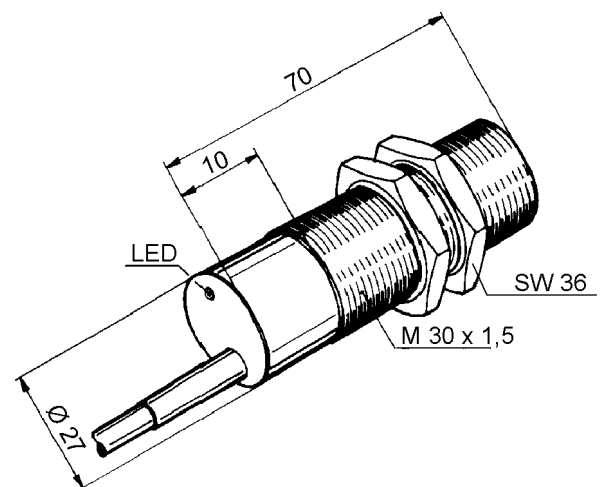
Type	IKL 015.04 Z
Art.-No.	2376B
Rated operating distance (S _n)	15 mm
Output	normally closed
Target steel St37, 1mm thick	45 x 45 mm
Location at metal	non flush
Supply voltage (U _B)	20 - 260 V AC/DC
Power frequency	40 - 440 Hz
Load current max.	8 - 400 mA
Short - time load current	0,8 A / 100 ms 2 A / 10 ms
Short circuit protection	no
Residual current (I _r)	2 mA / 260 V AC
Voltage drop (U _d)	9 V
Switching hysteresis (H)	1 - 15 %
Ambient temperature	-25 ... +70 °C
Protection class	IP 67
Connection	0,3 m cable
Function display	LED
Housing material	plastic

Diagram of Connections



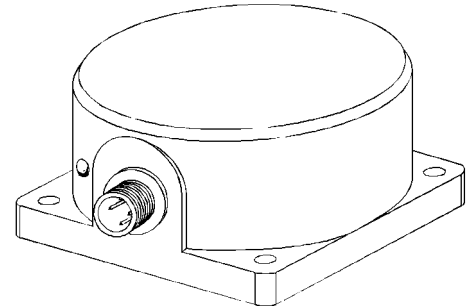
When mains voltage is applied, the output controls (normally-close behaviour). After the sensor is actuated, the output blocks for 13 seconds and then becomes conducting again regardless off the state of vaporisation again.

The application requires regular change of the output signal. This behaviour is controlled internally and when the signal has not been changed for 3 minutes, the output is permanently blocked. If service voltage is interrupted, return to normal operation is possible.



Short circuit protected proximity switch for higher operating distances.

3 wire connection with PNP normally open output.



Technical Data

Type	IKK 060.33 G S4
Art.-No.	2046B
Rated operating distance (Sn)	60 mm
Output	PNP normally open
Operating distance adjustable	no
Target steel St37, 1mm thick	180 x 180 mm
Location at metal	non flush
Supply voltage (UB)	10 - 55 V DC
Ripple voltage	max 15 %
Load current max.	0 - 400 mA
Short-time load current	2 A / 10 ms 0,8 A / 100 ms
Short circuit protection	Yes, pulsing
Voltage drop (Ud)	1,5 V / 50 mA
No-load current (I0)	< 10 mA
Operating frequency (f)	30 Hz
Switching hysteresis (H)	1 - 15 %
Ambient temperature	-25 ... +70 °C
Protection class	IP 67
Connection	Plug S4 (M12x1)
Function display	LED
Housing material	plastic PBT
Further available designs:	Art.-No.:
With adjustable operating distance	2046C
Accessories (please order separately)	Art.-No.
Suitable angular connector with moulded 2 m connection cable	9841D

Diagram of Connections

