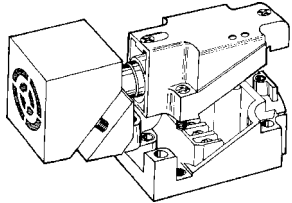
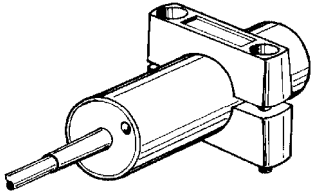
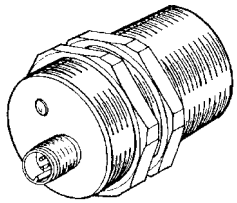
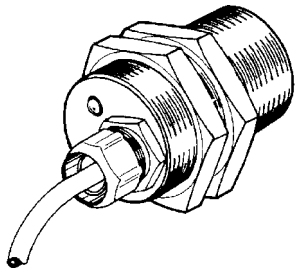
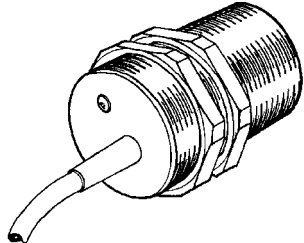
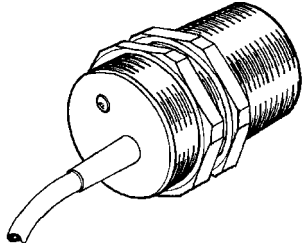


Inductive Proximity Switches

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

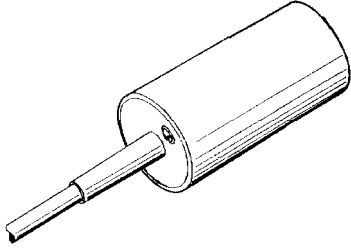
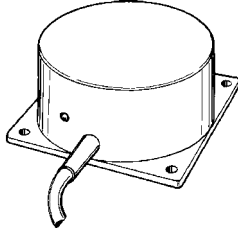
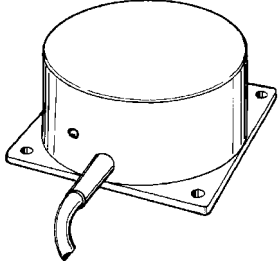
The advantages of the AC/DC 2-wire connection are the wide and universal voltage range and the wire saving installation. The residual current of 1,7 mA due to the load and the voltage drop of 9V over the switch in case of low mains voltage are to be observed.

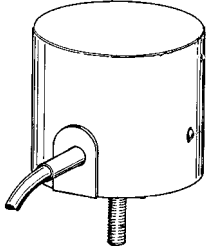
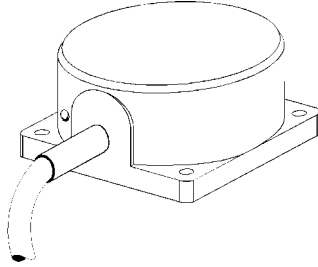
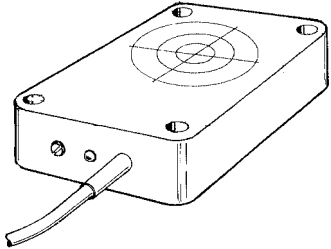
Apart from the wide voltage range the DC technology offers the possibility to apply the normally-open and normally-closed outputs separately or linked

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.

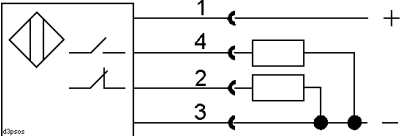
Connection technology

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

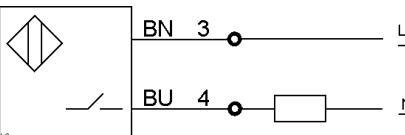
Itemgroup 220

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