

Sensors with cable connection

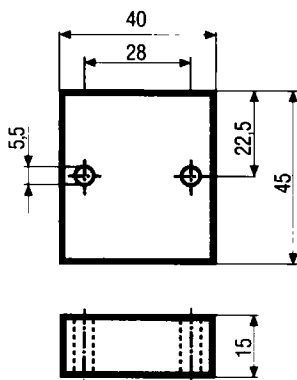
Standard cable length 1 m (included in base price). **Stock length 3 m.** (charge for extra 2 m). Preferred longer lengths are 2 m, 3 m, 5 m, 8 m and 10 m. When ordering please specify required cable length by "-" to the type number (e.g. 153 270 with 3 m cable: 153 270-3). Please note that when invoiced, this will be charged as two items. Item 1 will be the basic sensor 153 270 with 1 m cable, and item 2 will be the additional 2 metres of cable.

Spacers for Machine Safety Sensors 153 270/161 271/165 270 and corresponding Magnets for mounting onto ferrous material

Machine safety sensors should not be mounted directly onto ferrous material, because proper operation cannot be guaranteed. Therefore we recommend the use of the following spacers for our machine safety sensors 153 270/161 271/165 270 and corresponding coded magnets.

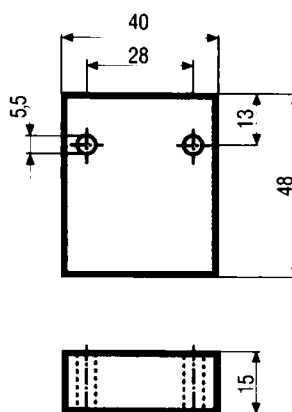
350 002

for sensor 161 271



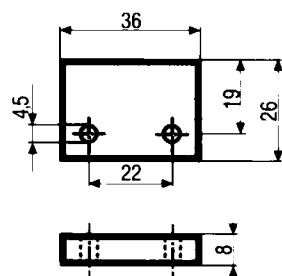
350 003

for magnet 304 221 12



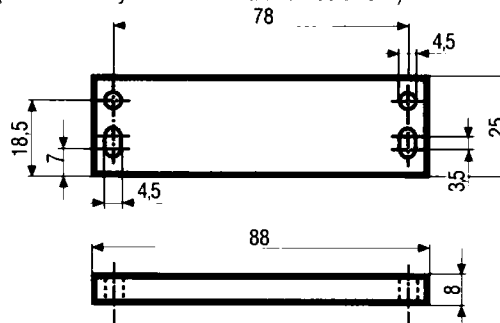
350 004

for sensor 153 270/magnet 304 281 12.



350 005

for sensor 165 270/magnet 304 261 12
(not necessary for 165 270 Q and 165 270 R)



material: PE black

Anti-tamper mounting screws

To prevent the unauthorised removal of the sensor and magnet fixing screws, we recommend the use of our socked head inserts.

Type 351 040 for hexagon socket screws DIN 912/M 4,

Type 351 041 for hexagon socket screws DIN 912/M 5,

Type 351 042 for hexagon socket screws DIN 7991/M 4.

100 pcs. per pack.

We reserve the right to change specifications without notice.

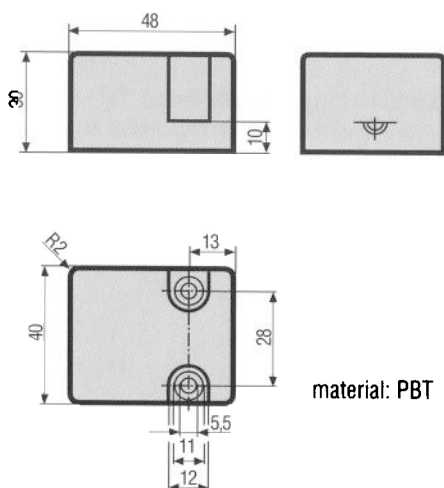


material: PA 6 GK 30 black

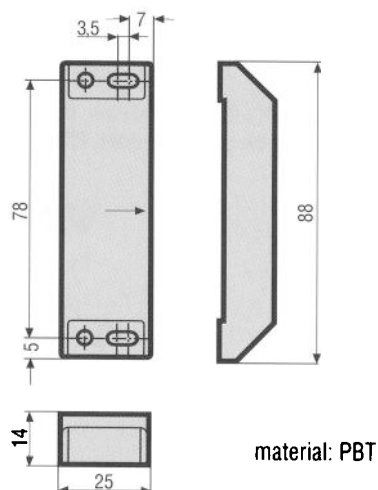


These strong magnet systems, marked through „S“ resp. „Q“ at the 9th position, increase the operating distance at our Machine Safety Switch Sensors 120 272/161 271 ../165 270 ../171 271 .. as shown in the table below .

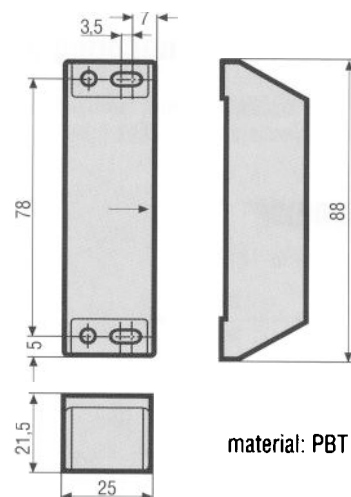
304 221 12 S



304 261 12 S

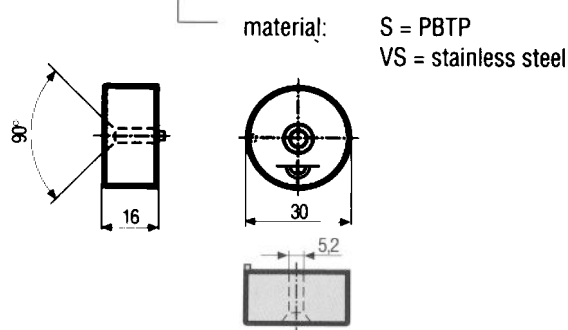


304 261 12 Q



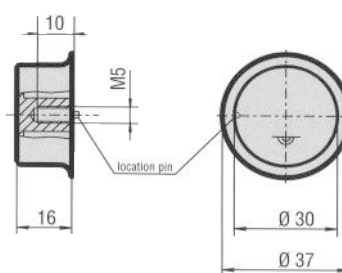
for sensors
165 270 R/165 270 Q

304 200 00



Hygiene magnet 304 200 00 SH*

meets European hygiene standard CEN/TC 153/HN108E



material: stainless steel

* also available as
"normal" magnet
(no. 304 200 00 VH).

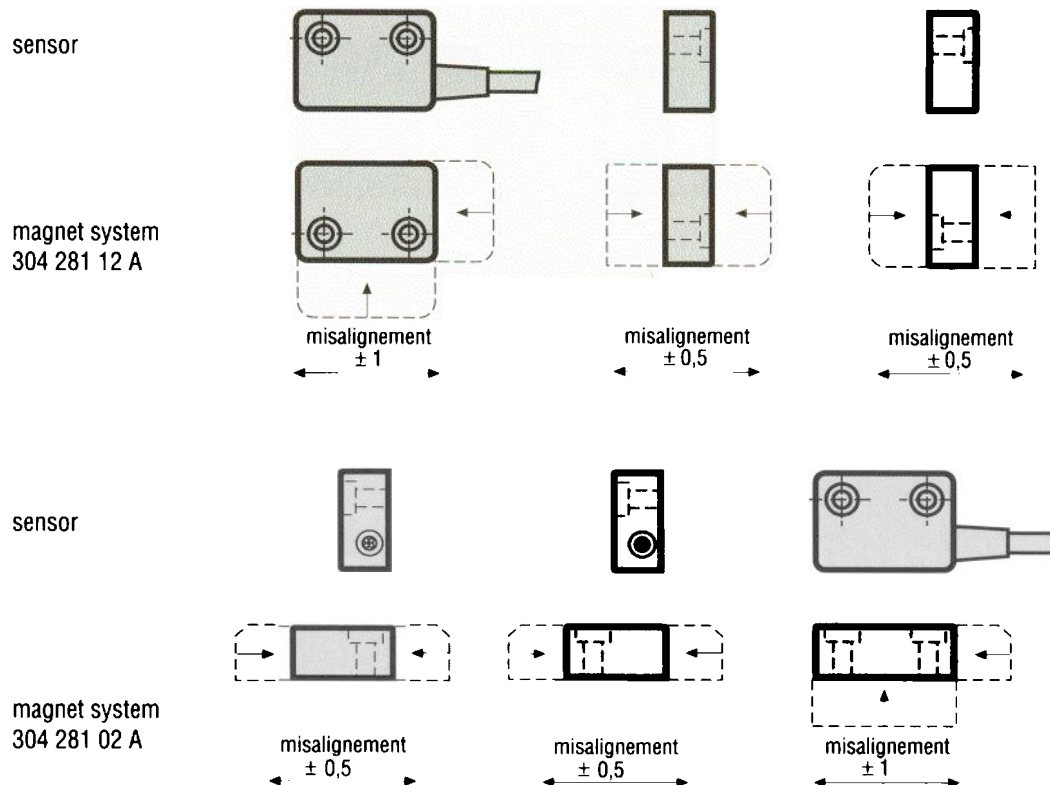
Strong magnet system operating distances

type no.	ON	OFF	OFF both contacts completely off	min. distance sensor/magnet
120 272	7 mm	17 mm	23 mm	3 mm
161 271	7 mm	17 mm	23 mm	3 mm
165 270 ..	7 mm	17 mm	23 mm	3 mm
171 271	7 mm	17 mm	23 mm	3 mm

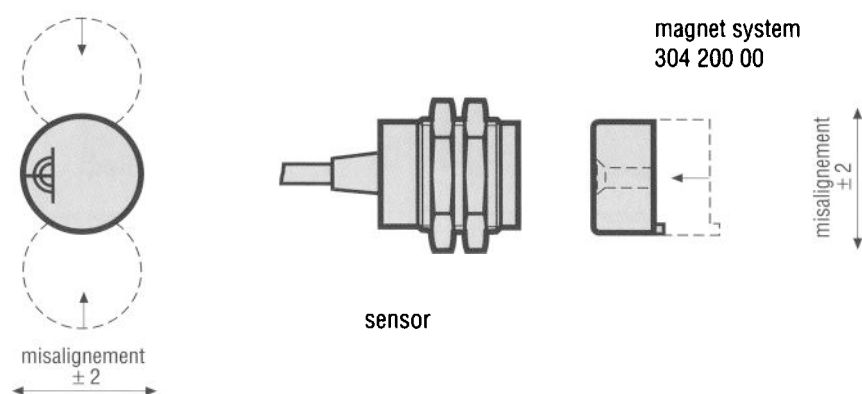
Attention! These strong magnets should only be used, if the application requires an air gap bigger than 4 mm between sensor and magnet. Please ensure that the maximum opening gaps of the door are not exceeded.



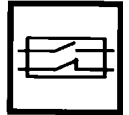
Alternative magnet operating directions and mounting tolerances 153 270



171 271

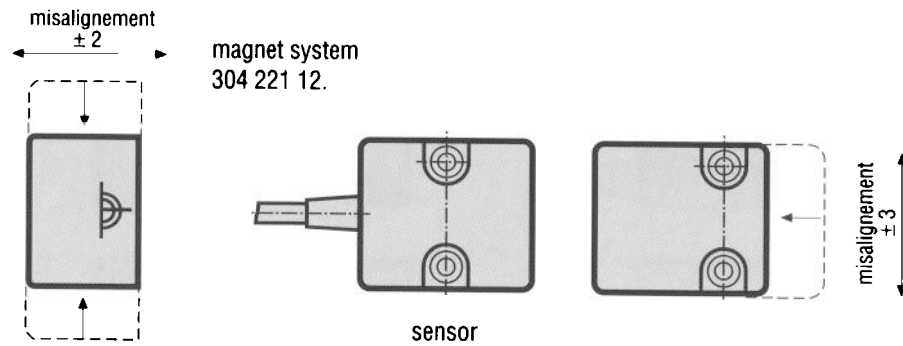


Note: the operating distance could be less

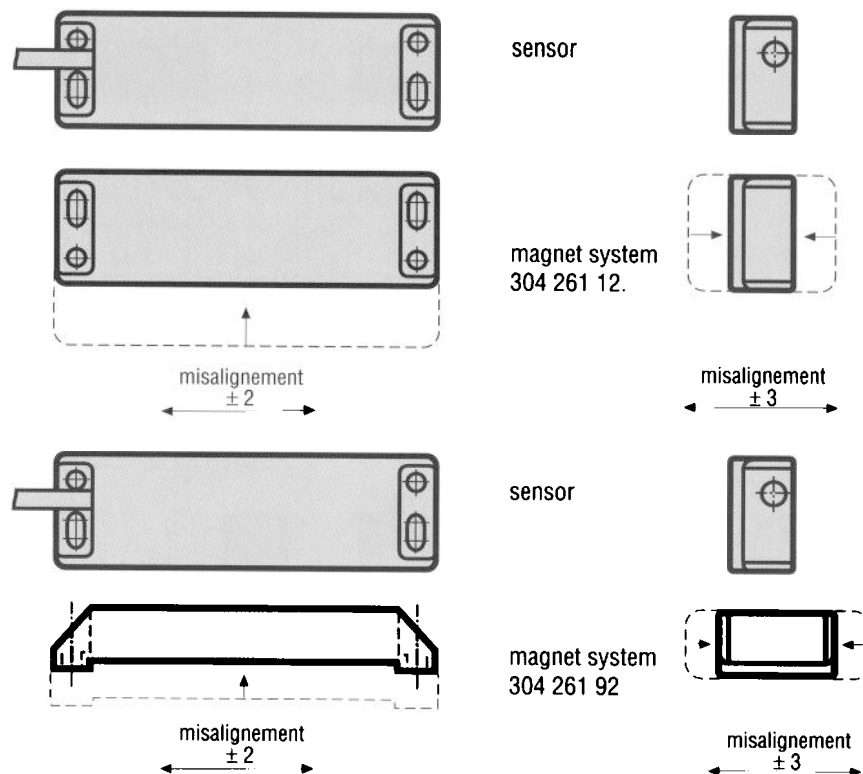


Alternative magnet operating directions and mounting tolerances

161 271



165 270



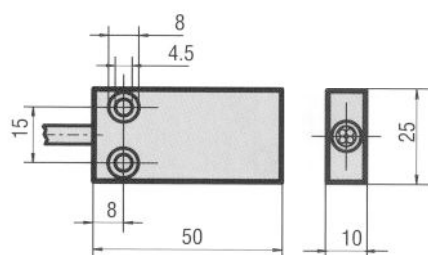
Note: the operating distance could be less



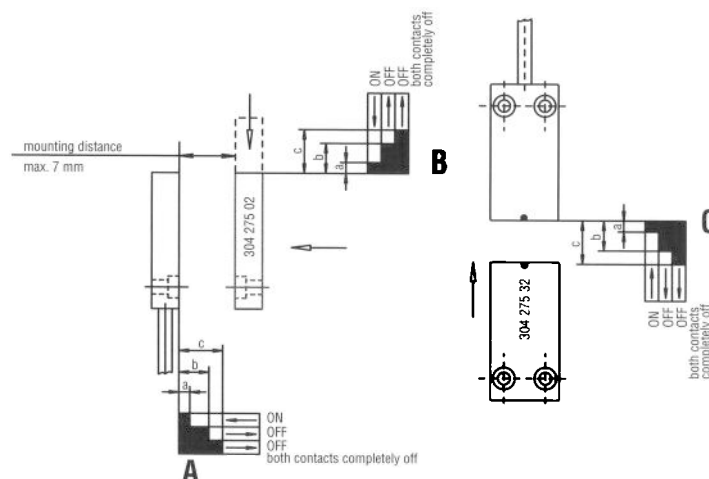
Sensors for Central Control Units 462 12. G1./462 121 E../H../463 12. ...

drive possibilities 114 270

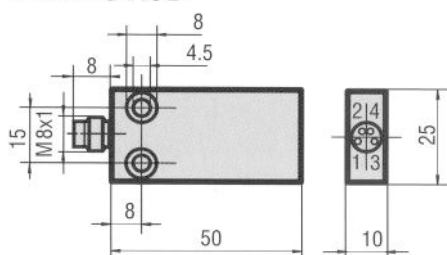
114 270*



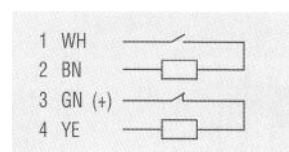
material: PBT



114 270 A0D*



material: PBT



type no.	protection class IEC 529	air gaps for reliable switching function			drive	temperature range (°C)	compatible magnet system
		a	b	c (mm)			
114 270	IP 67	> 0,5/≤ 7	mini 16	mini 19	A	-25 ...+75	304 275 02
114 270	IP 67	typ. 7	typ. 10	typ. 17	B	-25 ...+75	304 275 02
114 270	IP 67	> 0,5/≤ 2,5	mini 10	mini 14	C	-25 ...+75	304 275 32
114 270 A0D ¹⁾	IP 67	> 0,5/≤ 7	mini 16	mini 19	A	-25 ...+75	304 275 02
114 270 A0D ¹⁾	IP 67	typ. 7	typ. 10	typ. 17	B	-25 ...+75	304 275 02
114 270 A0D ¹⁾	IP 67	> 0,5/≤ 2,5	mini 10	mini 14	C	-25 ...+75	304 275 32

* USL/CNL registered sensors

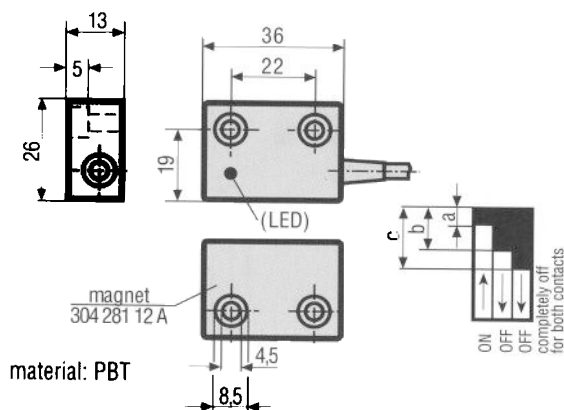
We reserve the right to change specifications without notice.

1) Cable sets see p. X/1-1 (type no. K 04 .00.)
Only sensors listed above should be connected to elobau central control units.

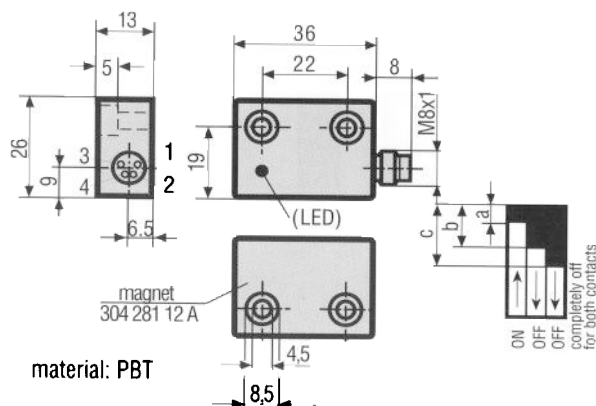


Sensors for Central Control Units 462 12. G1./462 121 E../H../463 12. ..

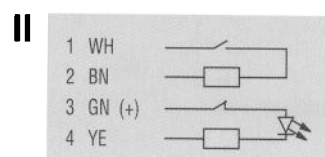
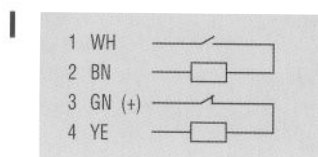
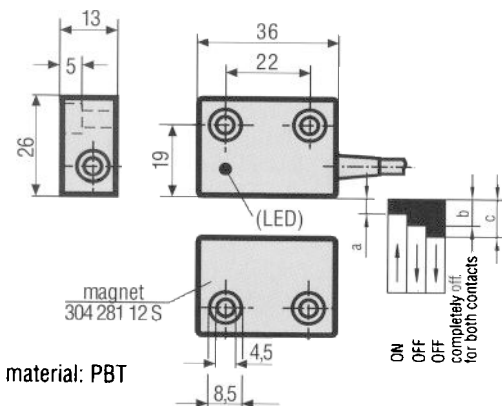
153 270*/ 153 270 AA*



153 270 A0D*/ 153 270 A0E*



153 270 S/SA



type no.	protection class IEC 529	indication	air gaps for reliable switching function			circuit diagram	temperature range (°C)	compatible magnet system
			a	b	c (mm)			
153 270	IP 67	-	> 0,5/≤ 3	min. 7	min. 10	I	-25 ...+75	304 281 12 A
153 270 AA	IP 67	LED	> 0,5/≤ 3	min. 7	min. 10	II	-25 ...+75	304 281 12 A
153 270 A0D ¹⁾	IP 65/67	-	> 0,5/≤ 3	min. 7	min. 10	I	-25 ...+75	304 281 12 A
153 270 A0E ¹⁾	IP 65/67	LED	> 0,5/≤ 3	min. 7	min. 10	II	-25 ...+75	304 281 12 A
153 270 S	IP 67	-	> 0,5/≤ 9	min. 17	min. 21	I	-25 ...+75	304 281 12 S
153 270 SA	IP 67	LED	> 0,5/≤ 9	min. 17	min. 21	II	-25 ...+75	304 281 12 S

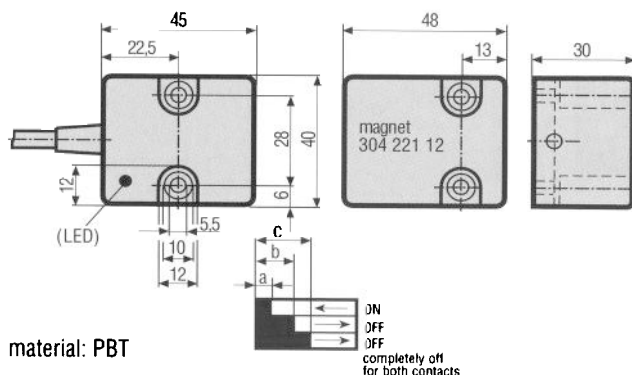
* USL/CNL registered sensors

We reserve the right to change specifications without notice.

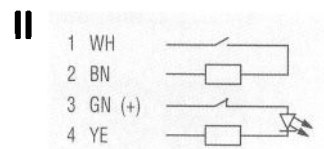
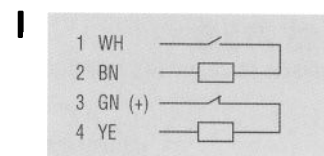
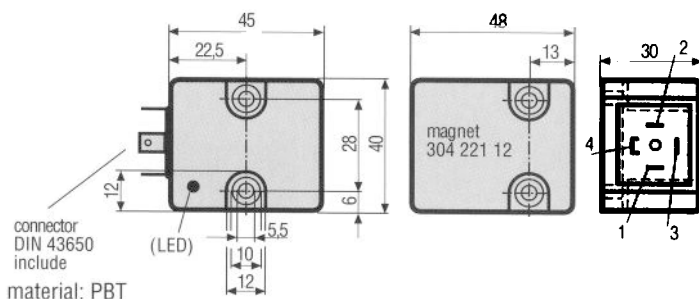


Sensors for Central Control Units 462 12. G1./462 121 E../H../463 12. ..

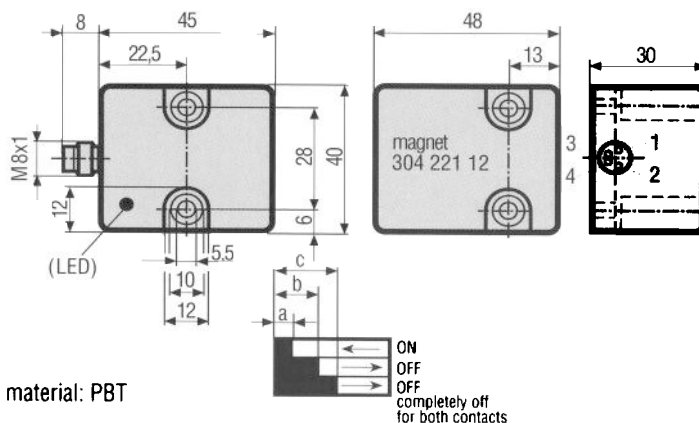
161 271*/161 271 AA*



161 271 AB/161 271 AC



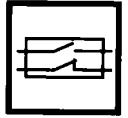
161 271 A0D*/161 271 A0E*



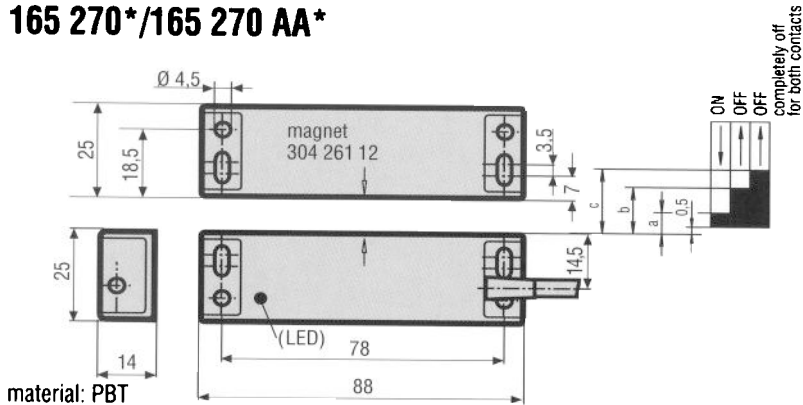
type no.	protection class IEC 529	indication	air gaps for reliable switching function			circuit diagram	temperature range (°C)	compatible magnet system
			a	b	c (mm)			
161 271	IP 67	-	> 0,5/≤ 4	min. 11	min. 16	I	-25 ...+75	304 221 12.
161 271 AA	IP 67	LED	> 0,5/≤ 4	min. 11	min. 16	II	-25 ...+75	304 221 12.
161 271 AB	IP 65	-	> 0,5/≤ 4	min. 11	min. 16	I	-25 ...+75	304 221 12.
161 271 AC	IP 65	LED	> 0,5/≤ 4	min. 11	min. 16	II	-25 ...+75	304 221 12.
161 271 A0D ¹⁾	IP 67	-	> 0,5/≤ 4	min. 11	min. 16	I	-25 ...+75	304 221 12.
161 271 A0E ¹⁾	IP 67	LED	> 0,5/≤ 4	min. 11	min. 16	II	-25 ...+75	304 221 12.

* USL/CNL registered sensors

We reserve the right to change specifications without notice. 1) Cable sets see p. X/1-1 (type no. K 04 .00.)
Only sensors listed above should be connected to elobau central control units.



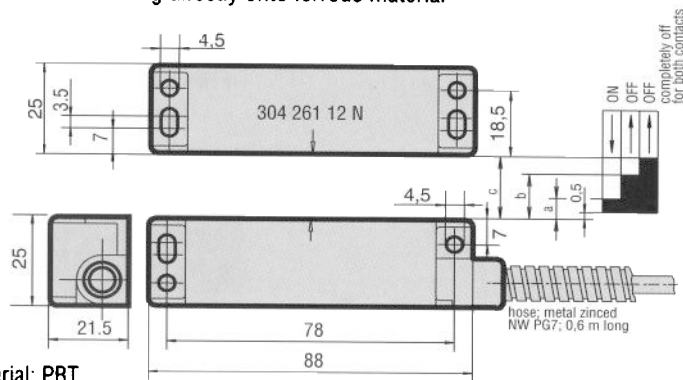
**Sensors for Central Control Units 462 12. G1./462 121 E../H../463 12. ...
165 270*/165 270 AA***



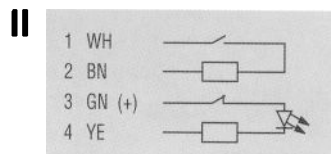
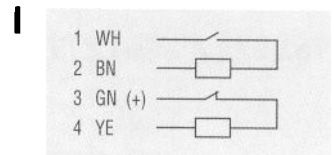
material: PBT

165 270 Q

suitable for mounting directly onto ferrous material

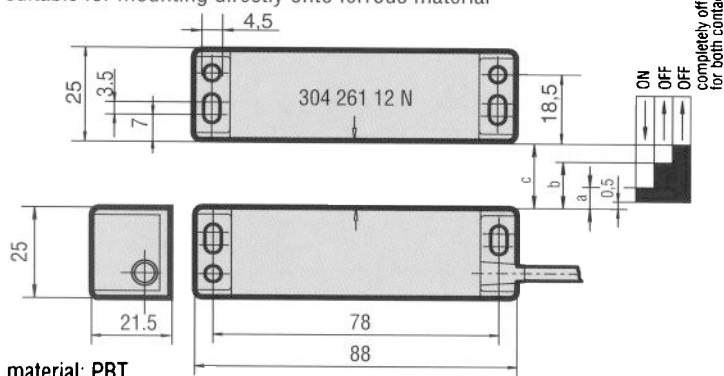


material: PBT



165 270 R

suitable for mounting directly onto ferrous material



material: PBT

type no.	protection class IEC 529	indi- cation	air gaps for reliable switching function			circuit diagram	temperature range (°C)	compatible magnet system
			a	b	c (mm)			
165 270	IP 67	-	> 0,5/≤ 4	min. 11	min. 16	I	-25 ...+75	304 261 12
165 270 AA	IP 67	LED	> 0,5/≤ 4	min. 11	min. 16	II	-25 ...+75	304 261 12
165 270 Q	IP 67	-	> 0,5/≤ 4	min. 11	min. 16	I	-25 ...+75	304 261 12 N
165 270 R	IP 67	-	> 0,5/≤ 4	min. 11	min. 16	I	-25 ...+75	304 261 12 N

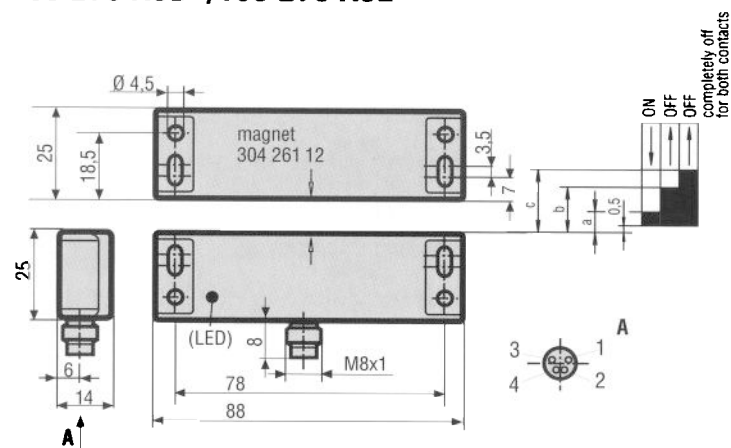
* USL-/CNL registered sensors

We reserve the right to change specifications without notice. Only sensors listed above should be connected to elobau central control units.

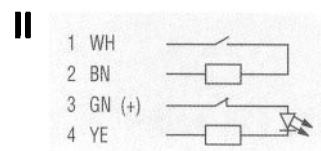
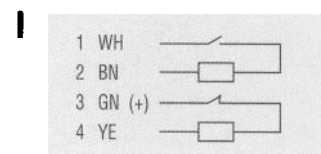


Sensors for Central Control Units 462 12. G1./462 121 E../H../463 12. ...

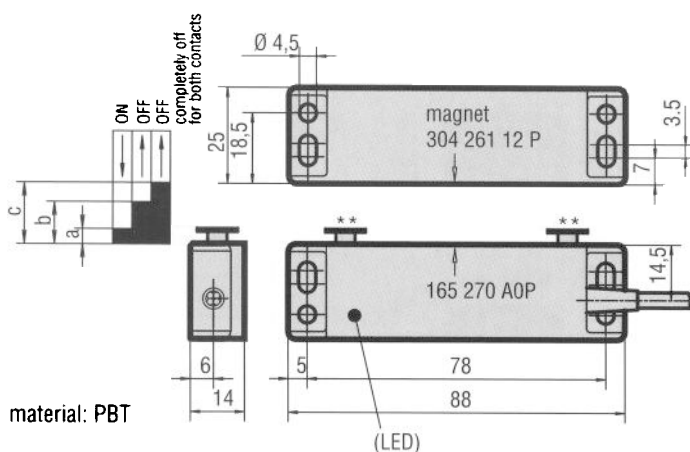
165 270 A0D*/165 270 A0E*



material: PBT



165 270 A0P/165 270 AAP



material: PBT

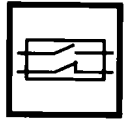
** buffers have free movement of approx. 3 mm
(door should be free from play with buffers fully out)
retention force: approx. 20 N

type no.	protection class IEC 529	indication	air gaps for reliable switching function			circuit diagram	temperature range (°C)	compatible magnet system
			a	b	c (mm)			
165 270 A0D ¹⁾	IP 67	-	> 0,5/≤ 4	min. 11	min. 16	I	-25 ...+75	304 261 12
165 270 A0E ¹⁾	IP 67	LED	> 0,5/≤ 4	min. 11	min. 16	II	-25 ...+75	304 261 12
165 270 A0P	IP 67	-	> 0,5/≤ 4	min. 11	min. 16	I	-25 ...+75	304 261 12 P
165 270 AAP	IP 67	LED	> 0,5/≤ 4	min. 11	min. 16	II	-25 ...+75	304 261 12 P

* USL-/CNL registered sensors

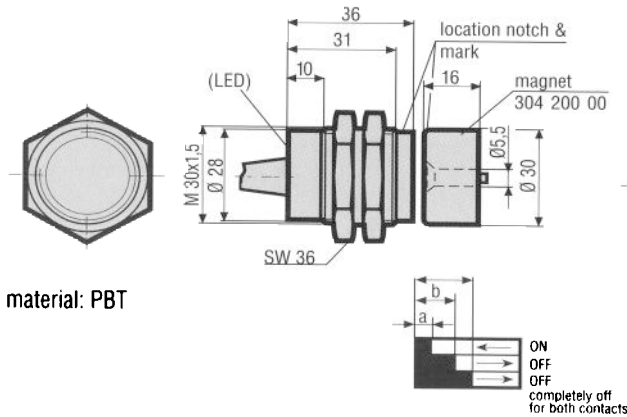
We reserve the right to change specifications without notice. 1) Cable sets see p. X/1-1 (type no. K 04 .00.)

Only sensors listed above should be connected to elobau central control units.

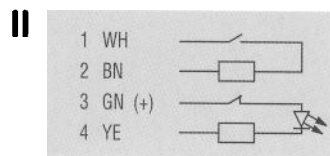
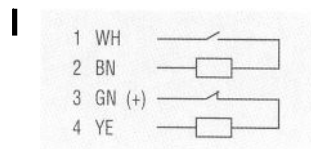
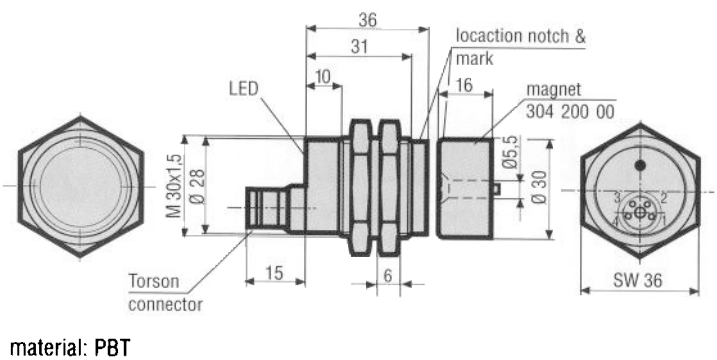


Sensors for Central Control Units 462 12. G1./462 121 E../H../463 12. ..

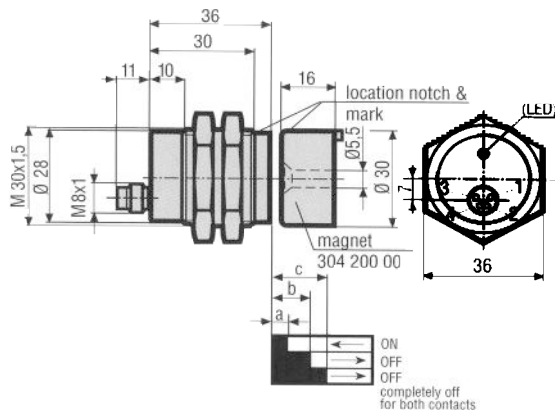
171 271*/171 271 AA*



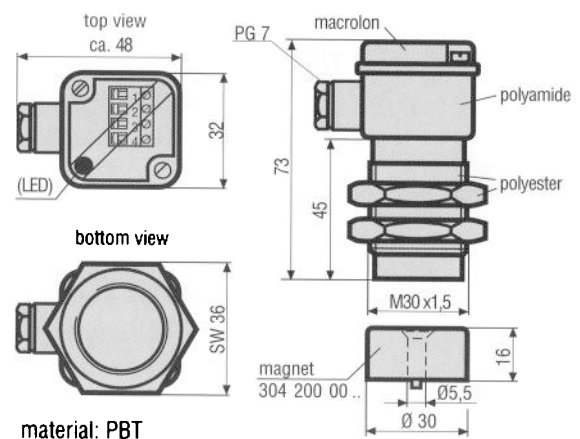
171 271 AM*



171 271 A0D*/171 271 A0E*



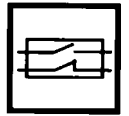
171 271 AT/171 271 AU



type no.	protection class IEC 529	indication	air gaps for reliable switching function			circuit diagram	temperature range (°C)	compatible magnet system
			a	b	c (mm)			
171 271	IP 67	-	> 0,5/≤ 4	mini 11	mini 16	I	-25 ...+75	304 200 00 ..
171 271 AA	IP 67	LED	> 0,5/≤ 4	mini 11	mini 16	II	-25 ...+75	304 200 00 ..
171 271 AM ²⁾	IP 65	LED	> 0,5/≤ 4	mini 11	mini 16	II	-25 ...+75	304 200 00 ..
171 271 A0D ¹⁾	IP 65/67	-	> 0,5/≤ 4	mini 11	mini 16	I	-25 ...+75	304 200 00 ..
171 271 A0E ¹⁾	IP 65/67	LED	> 0,5/≤ 4	mini 11	mini 16	II	-25 ...+75	304 200 00 ..
171 271 AT	IP 66	-	> 0,5/≤ 4	mini 11	mini 16	I	-25 ...+75	304 200 00 ..
171 271 AU	IP 66	LED	> 0,5/≤ 4	mini 11	mini 16	II	-25 ...+75	304 200 00 ..

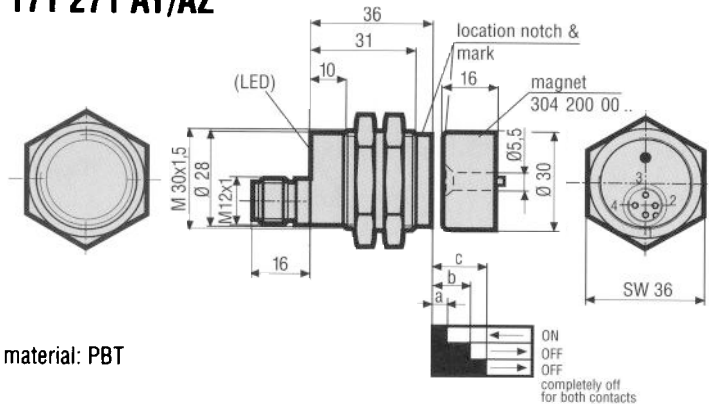
* USL-/CNL registered sensors

We reserve the right to change specifications without notice.



Sensors for Central Control Units 462 12. G1./462 121 E../H../463 12. ...

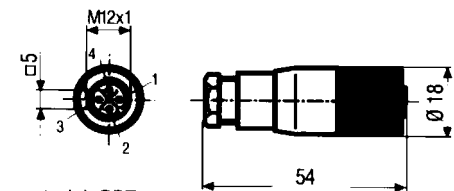
171 271 AY/AZ*



material: PBT

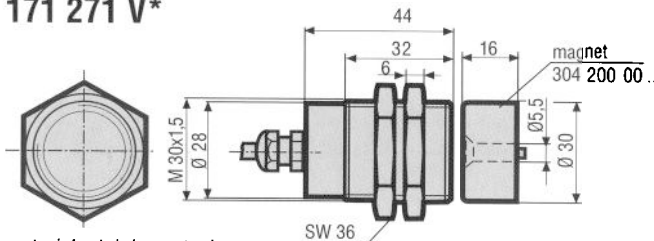
Female Cable Connector 351 150

for sensors 171 271 AY/AZ



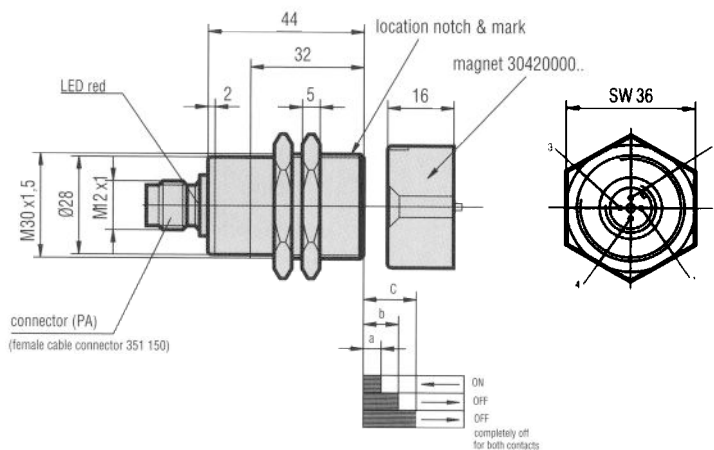
material: PBT

171 271 V*



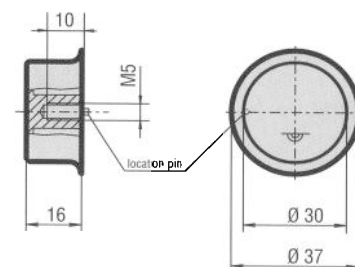
material: stainless steel

171 271 VZ*



Hygiene magnet 304 200 00 VH

meets European hygiene standard CEN/TC 153/HN108E



material: stainless steel

type no.	protection class IEC 529	indi- cation	air gaps for reliable function			circuit diagram	temperature range (°C)	compatible magnet system
			a	b	c (mm)			
171 271 AY	IP 67	-	$> 0,5 \leq 4$	min. 11	min. 16	I	-25 ...+75	304 200 00 ..
171 271 AZ	IP 67	LED	$> 0,5 \leq 4$	min. 11	min. 16	II	-25 ...+75	304 200 00 ..
171 271 V	IP 68	-	$> 0,5 \leq 4$	min. 11	min. 16	I	-25 ...+75	304 200 00 ..
171 271 VZ	IP 67	LED	$> 0,5 \leq 4$	min. 11	min. 16	II	-25 ...+75	304 200 00 ..

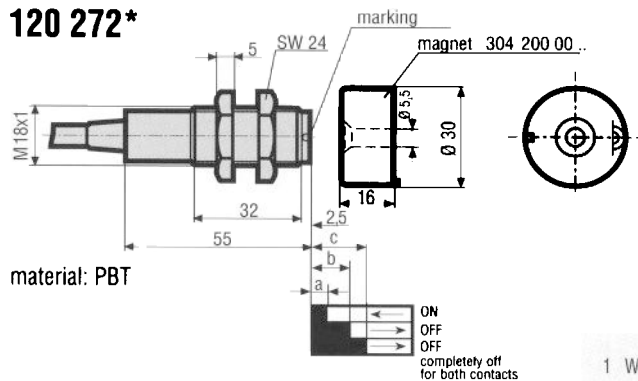
* USL-/CNL registered sensors

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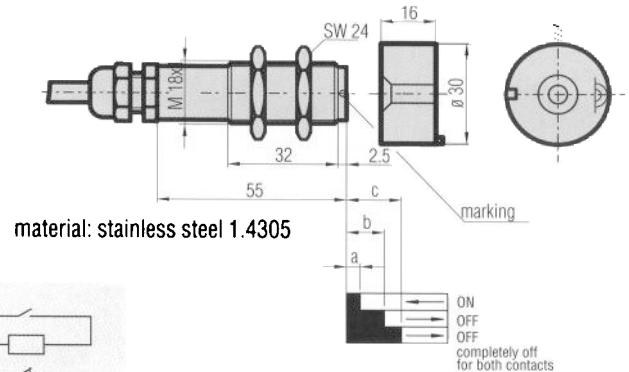


Sensors for Central Control Units 462 12. G1 ./462 121 E./H../463 12. ...

120 272*



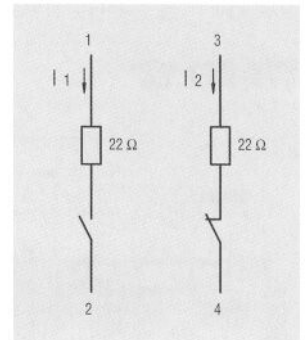
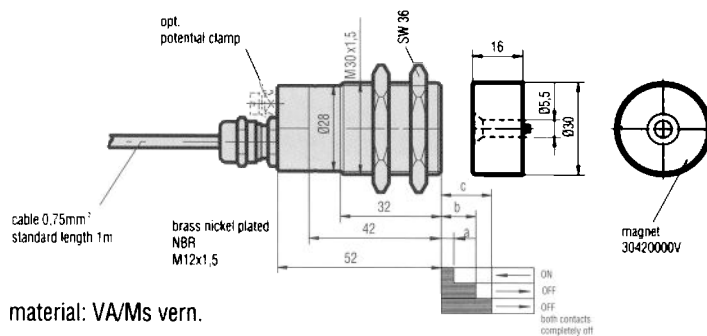
120 272 V



type no.	protection class IEC 529	air gaps for reliable switching function			temperature range (°C)	compatible magnet system
		a	b	c (mm)		
120 272	IP 67	> 0,5/≤ 4	min. 13	min. 22	-25 ...+75	304 200 00 ..
120 272 V	IP 68	> 0,5/≤ 4	min. 13	min. 22	-25 ...+75	304 200 00 ..

671 271..0 ATEX approved to 94/9 EG (ATEX)*/**

Intrinsically safe type, can not be used in connection with elobau-central control units.



type no.	switching voltage (V)	switch. current I ₁ , I ₂ (A)	continuous current I ₁ , I ₂ (mA)	switching power (W/VA)	temperature range (°C)	resistance
671 271 ..0	24 AC/DC	0,5 (2 sec.)	max. 50	10/10	-25 ...+75	DCA 1206; 22Ω; 0,25W

protection class IEC 529	air gaps for reliable switching function (mm)			compatible magnet system (For other suitable magnets, please consult the factory.)
	a	b	c	
IP 68	> 0,5/≤ 4	min. 11	min. 16	304 200 00 V.

cable
Ex version

U = UL version (PVC) 0,75 mm² -5°C...+90°C (-40°C...+105°C)
M = encapsulation (m)
I = intrinsically safe (ia)

* USL-/CNL registered sensors

**Applied for approval (according to EEx ia IIC T4/T5/T6)
Applied for approval (according to EEx m IIC T4/T5/T6)

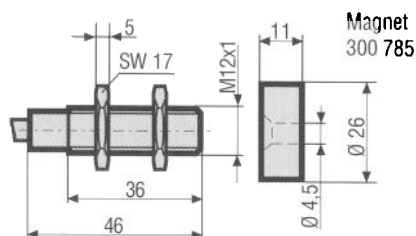
zone 0/cat. 1 (ia)
zone 1/cat. 2 (m)
zone 21/cat. 2 (m)

We reserve the right to change specifications without notice. Only sensors listed above should be connected to elobau central control units.



Sensors for Central Control Units 462 12. G1 ./462 121 E../H../463 12. ..

Special type 122 271

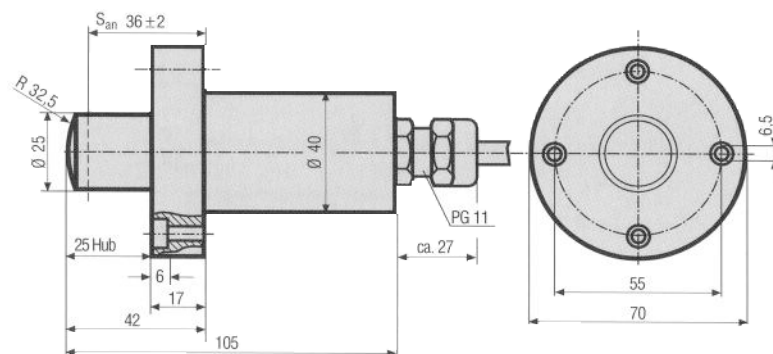


Sensor **122 271** does not have T.Ü.V. or B.I.A. approval but is accepted by most of the German professional associations if the sensor and magnet can be hidden, i.e. mounted behind panel, in a box etc. They have the advantage of large operating distances.

material: PBT

type no.	protection class IEC 529	air gap for reliable switching function (mm)			temperature range (°C)	compatible magnet system
		a	b	c		
122 271	IP 67	> 0,5/≤ 15	min. 28	min. 37	-25 ...+75	300 785

Special type 144 971 V



This plunger operated switch type 144 971 V also has no T.Ü.V. or B.I.A. approvals but is again accepted by many German professional associations for example in the control of transport trolleys in food processing machines.

material: stainless steel

type no.	protection class IEC 529	S _{on} (* switch is operated at...)	temperature range (°C)
144 971V	IP 67	36 ± 2 mm	-25 ...+75



Sensors with cable connection

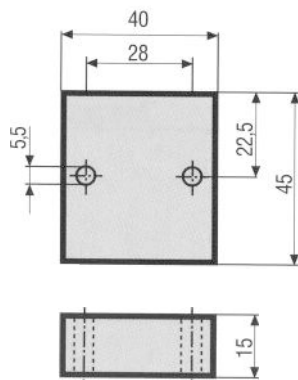
Standard cable length 1 m (included in base price). **Stock length 3 m.** (charge for extra 2 m). Preferred longer lengths are 2 m, 3 m, 5 m, 8 m and 10 m. When ordering please specify required cable length by "-" to the type number (e.g. 153 260 with 3 m cable: 153 260 - 3). Please note that when invoiced, this will be charged as two items. Item 1 will be the basic sensor 153 260 with 1 m cable, and item 2 will be the additional 2 metres of cable.

Spacers for Machine Safety Sensors 153 260/161 261/165 260 and corresponding magnets for mounting onto ferrous material

Machine safety sensors should not be mounted directly onto ferrous material, because proper operation cannot be guaranteed. Therefore we recommend the use of the following spacers for our machine safety sensors 153 260/161 261/165 260 and corresponding coded magnets.

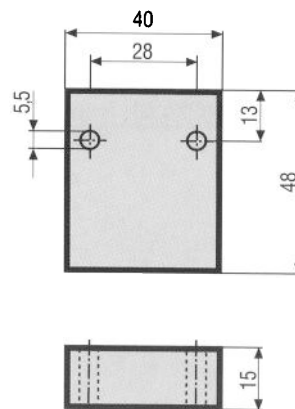
350 002

for sensor 161 261



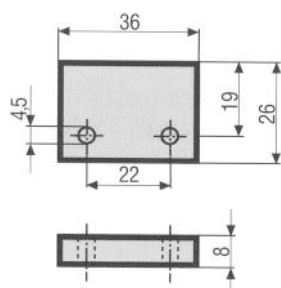
350 003

for magnet 304 221 12



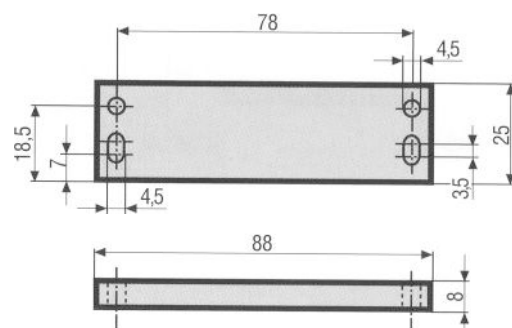
350 004

for sensor 153 260/magnet 304 281 12.



350 005

for sensor 165 260/magnet 304 261 12



material: PE black

Anti-tamper mounting screws

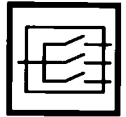
To prevent the unauthorised removal of the sensor and magnet fixing screws, we recommend the use of our socked head inserts.

Type 351 040 for hexagon socket screws DIN 912/M 4,
Type 351 041 for hexagon socket screws DIN 912/M 5,
Type 351 042 for hexagon socket screws DIN 7991/M 4.
100 pcs. per pack.

We reserve the right to change specifications without notice.

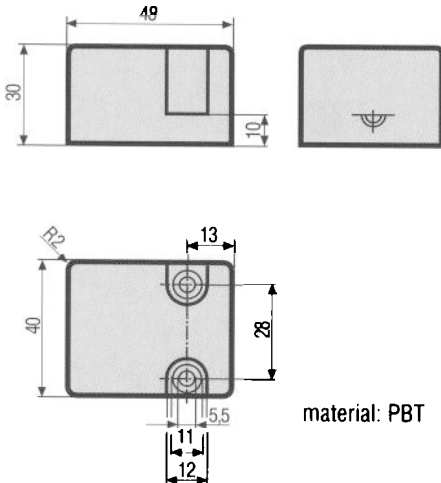


material: PA black



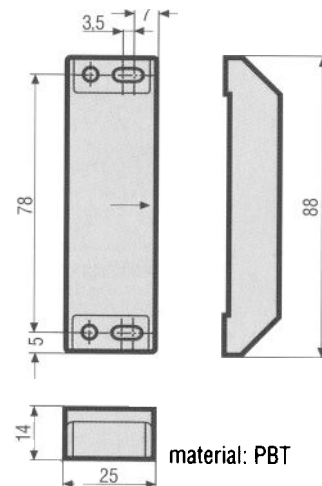
These strong magnet systems, marked through „S“ resp. „Q“ at the 9th position, increase the operating distance at our Machine Safety Switch Sensors 161 261/165 260/171 261 as shown in the table below.

304 221 12 S



material: PBT

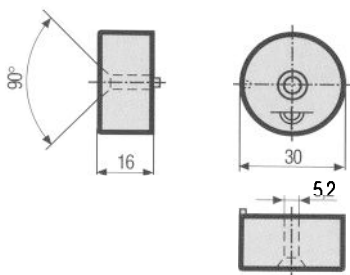
304 261 12 S



material: PBT

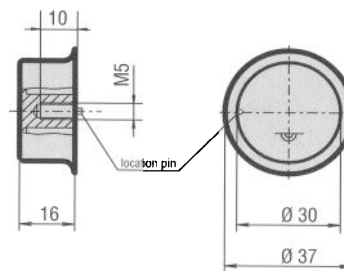
304 200 00

material: S = PBTP
VS = stainless steel



Hygiene magnet 304 200 00 SH*

meets European hygiene standard CEN/TC 153/HN108E



material: stainless steel

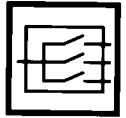
* also available as
"normal" magnet
(no. 304 200 00 VH).

Strong magnet system operating distances

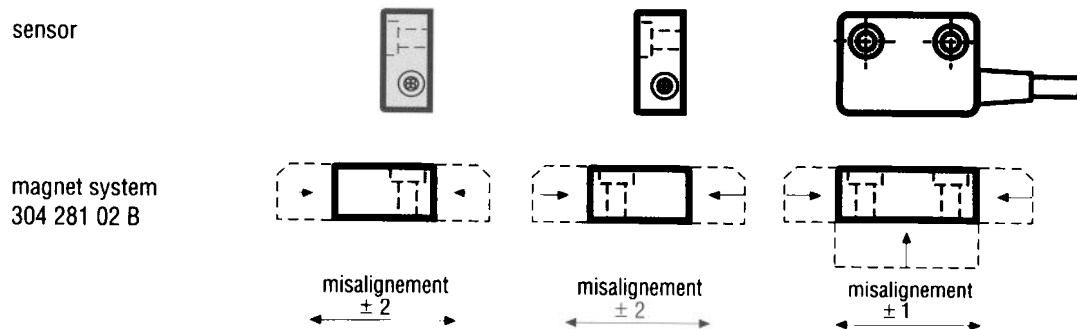
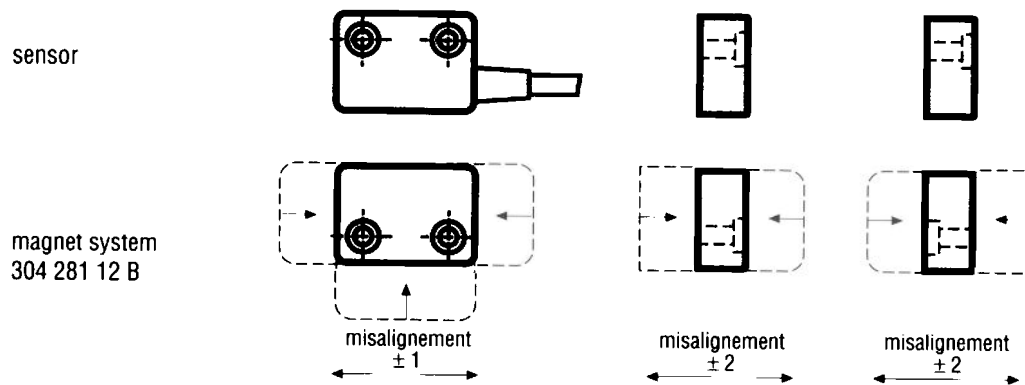
type no.	ON	OFF	min. distance sensor/magnet
161 261	7 mm	20 mm	3 mm
165 260	7 mm	18 mm	3 mm
171 261	7 mm	20 mm	3 mm

Attention!

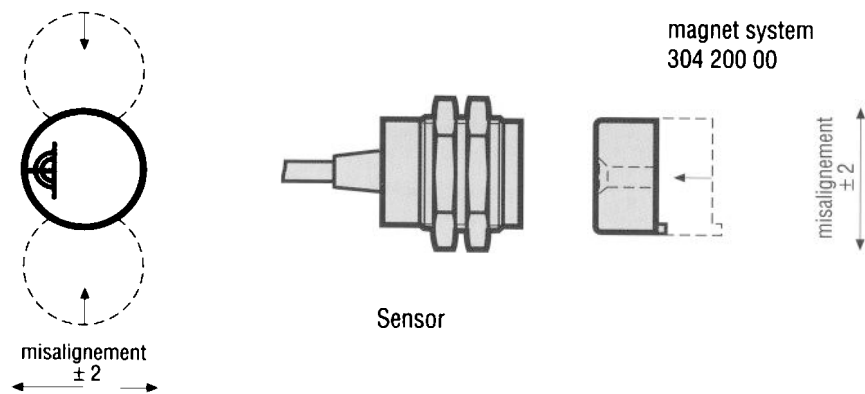
These strong magnets should only be used, if the application requires an air gap bigger than 4 mm between sensor and magnet. Please ensure that the maximum opening gaps of the door are not exceeded.



Alternative magnet operating directions and mounting tolerances 153 260



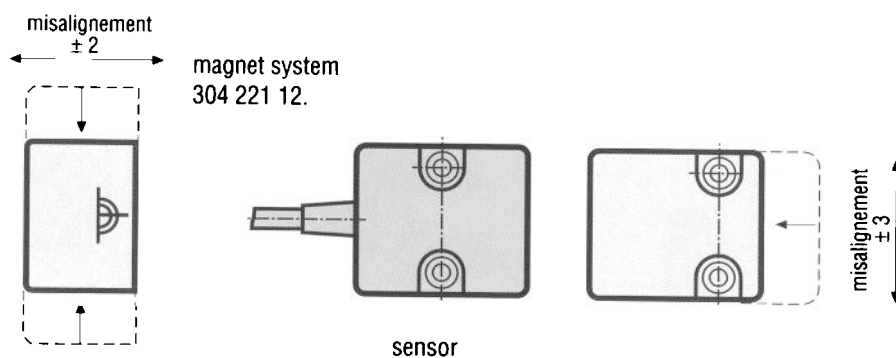
171 261



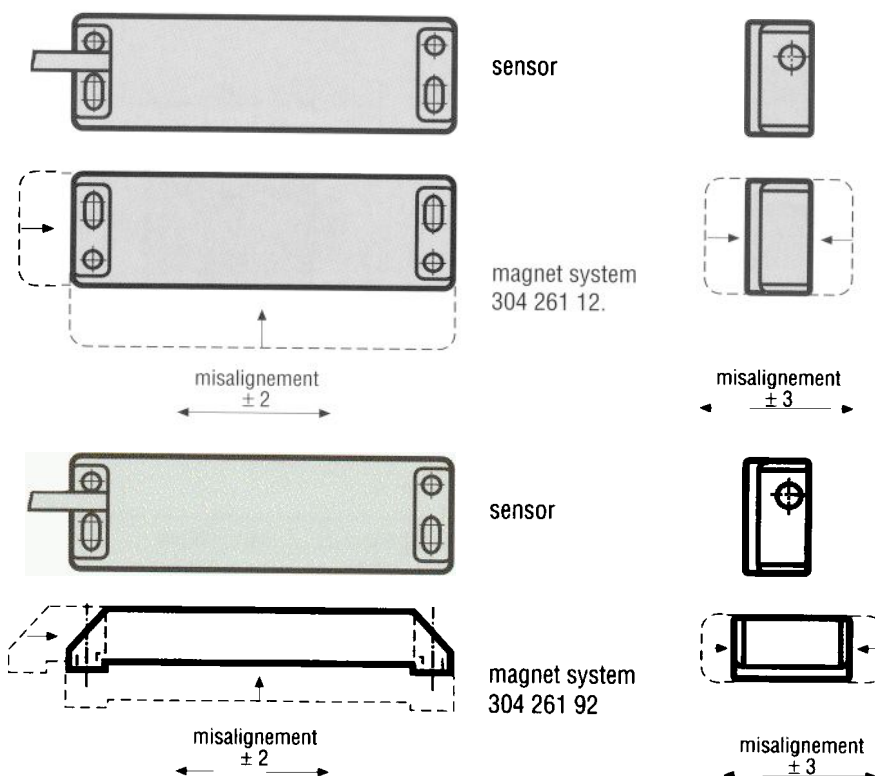
Note: the operating distance could be less



Alternative magnet operating directions and mounting tolerances 161 261



165 260

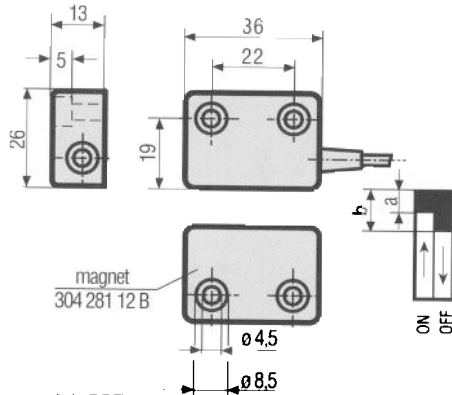


Note: the operating distance could be less

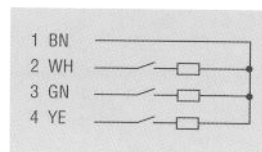
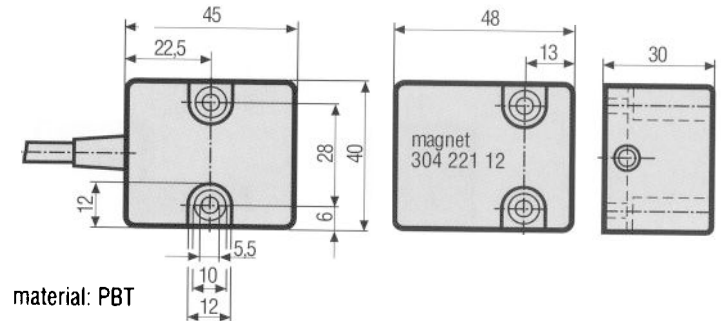


Sensors for Central Control Units 463 13./462 151 G.

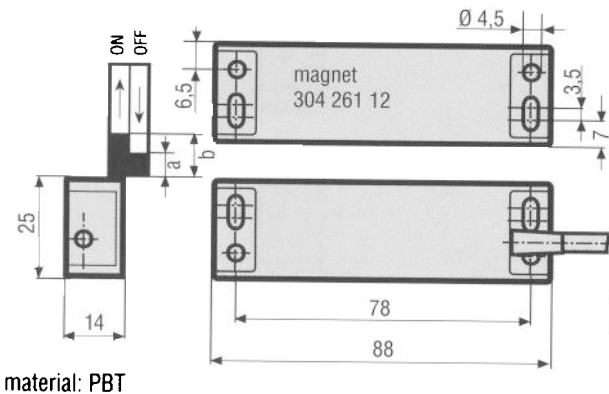
153 260



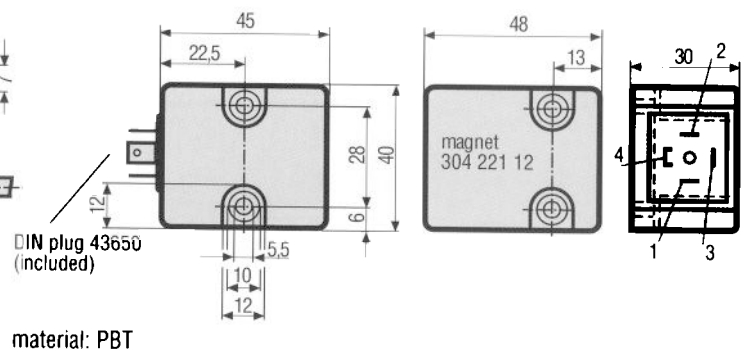
161 261



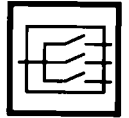
165 260



161 261 AB

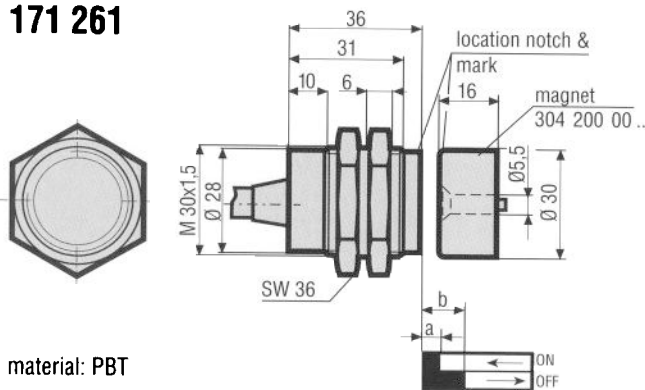


type no.	protection class IEC 529	air gaps for reliable switching function		temperature range (°C)	compatible magnet system
		a	b		
153 260	IP 67	$> 0,5/\leq 3$	min. 9	-25 ... +75	304 281 12.
161 261	IP 67	$> 0,5/\leq 4$	min. 14	-25 ... +75	304 221 12. or
161 261 AB	IP 65	$> 0,5/\leq 4$	min. 14	-25 ... +75	304 200 00..
165 260	IP 67	$> 0,5/\leq 4$	min. 11	-25 ... +75	304 261 12.



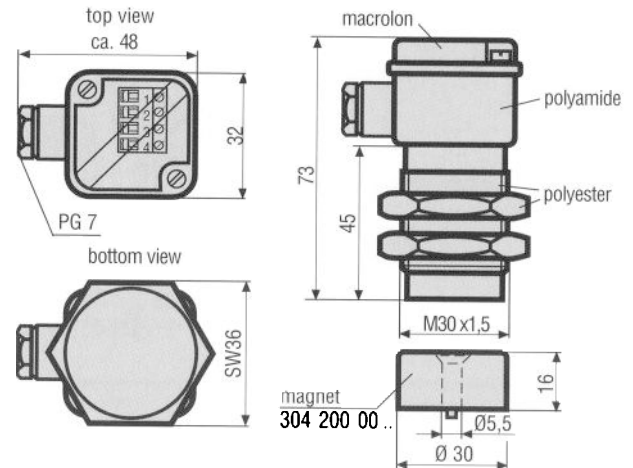
Sensors for Central Control Units 463 13./462 151 G.

171 261

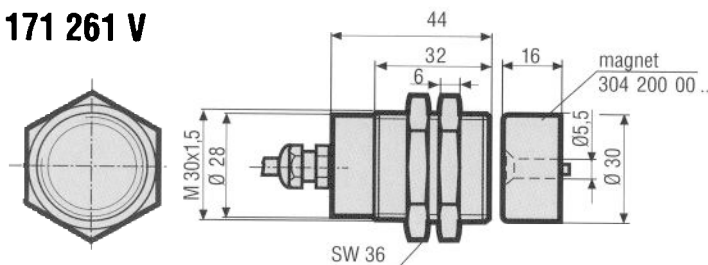


material: PBT

171 261 AT

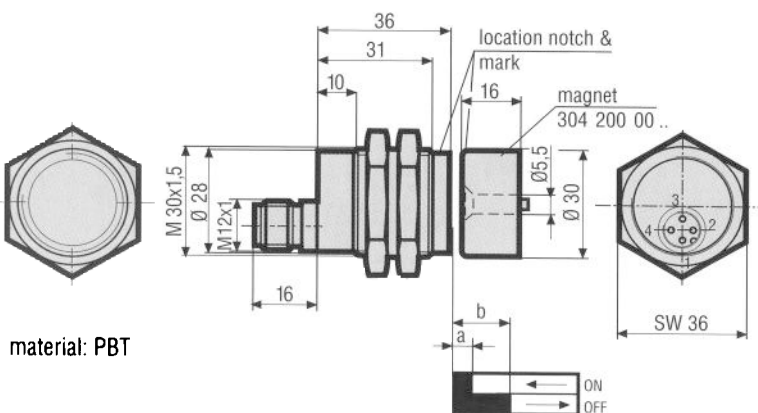


171 261 V



material: stainless steel

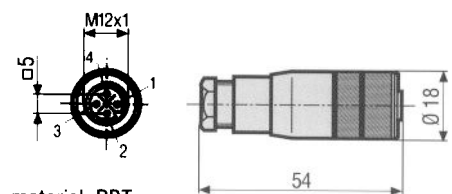
171 261 AY



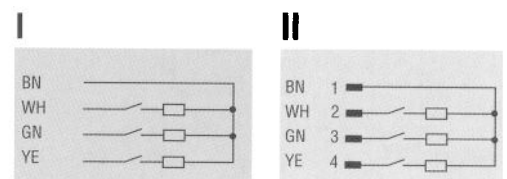
material: PBT

female cable connector 351 150

for sensor 171 261 AY

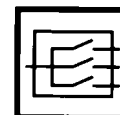


material: PBT



type no.	protection class IEC 529	air gaps for reliable switching function		circuit diagram	temperature range (°C)	compatible magnet system
		a	b (mm)			
171 261	IP 67	$> 0,5/\leq 4$	min. 14	I	-25 ... +75	304 200 00 ..
171 261 AT	IP 66	$> 0,5/\leq 4$	min. 14	II	-25 ... +75	304 200 00 ..
171 261 V	IP 68	$> 0,5/\leq 4$	min. 14	I	-25 ... +75	304 200 00 ..
171 261 AY	IP 67	$> 0,5/\leq 4$	min. 14	II	-25 ... +75	304 200 00 ..

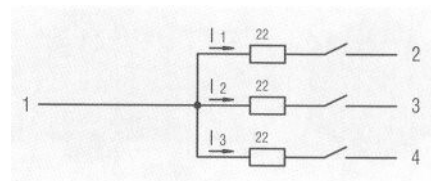
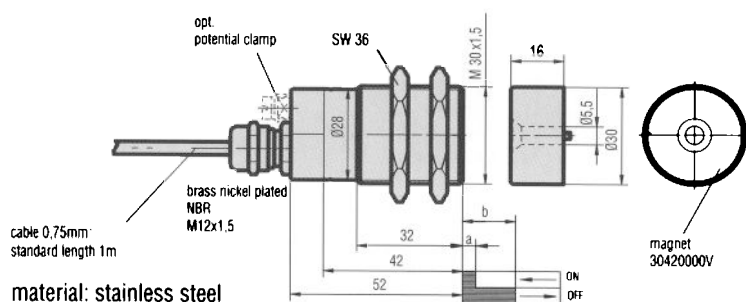
We reserve the right to change specifications without notice. Only sensors listed above should be connected to elobau central control units.



Sensors for Central Control Units 463 13./462 151 G.

671 261..0 ATEX approved to 94/9 EG (ATEX)*/**

Intrinsically safe type, can not be used in connection with elobau-central control units.



type no.	switching voltage (V)	switching current I_1, I_2 (A)	continuous current I_1, I_2 (mA)	switching power (W/VA)	temperature range (°C)	resistance
671 261 ..0	24 AC/DC	0,5 (2 sec.)	max. 50	5/5	-25 ...+75	DCA 1206; 22Ω; 0,25W

protection class IEC 529	air gaps for reliable switching functions a b (mm)	recommended operating magnet (For other suitable magnets, please consult the factory.)
IP 68	> 0,5/≤ 4 min. 16	304 200 00 V.

cable U = UL version (PVC) 0,75 mm² -5°C...+80°C (-40°C...+80°C)
 Ex version M = encapsulation (m)
 I = intrinsically safe (ia)

**Applied for approval (according to EEx ia IIC T4/T5/T6)
 Applied for approval (according to EEx m IIC T4/T5/T6)

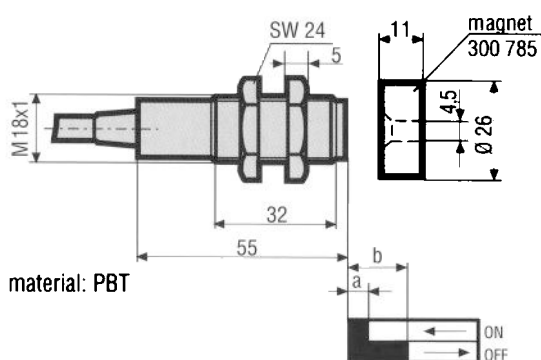
* USL-/CNL registered sensors

zone 0/cat. 1 (ia)
 zone 1/cat. 2 (m)
 zone 21/cat. 2 (m)

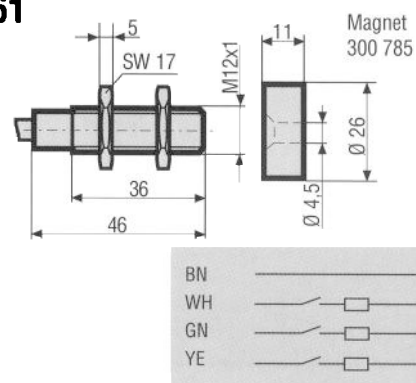
Special types

Sensors **120 261** and **122 261** do not have T.Ü.V. or B.I.A. approval but are accepted by most of the German professional associations if the sensor and magnet can be hidden, i.e. mounted behind panel, in a box etc. They have the advantage of large operating distances.

120 261



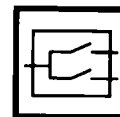
122 261



type no.	protection class IEC 529	air gaps for reliable switching function (mm) a b	temperature range (°C)	compatible magnet system
120 261	IP 67	> 0,5/≤ 13 min. 23	-25 ...+75	300 785
122 261	IP 67	> 0,5/≤ 15 min. 25	-25 ...+75	300 785

We reserve the right to change specifications without notice.

Only sensors listed above should be connected to elobau central control units.



Sensors with cable connection

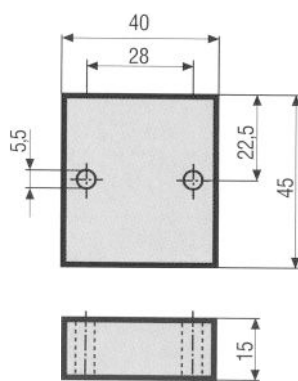
Standard cable length 1 m (included in base price). **Stock length 3 m.** (charge for extra 2 m). Preferred longer lengths are 2 m, 3 m, 5 m, 8 m and 10 m. When ordering please specify required cable length by "-" to the type number (e.g. 153 262 with 3 m cable: 153 262 - 3). Please note that when invoiced, this will be charged as two items. Item 1 will be the basic sensor 153 262 with 1 m cable, and item 2 will be the additional 2 metres of cable.

Spacers for Machine Safety Sensors 153 262/161 262/165 262 and corresponding Magnets for mounting onto ferrous material

Machine safety sensors should not be mounted directly onto ferrous material, because proper operation cannot be guaranteed. Therefore we recommend the use of the following spacers for our machine safety sensors 153 262/161 262/165 262 and corresponding coded magnets.

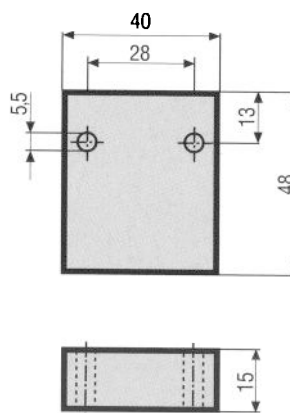
350 002

for sensor 161 262



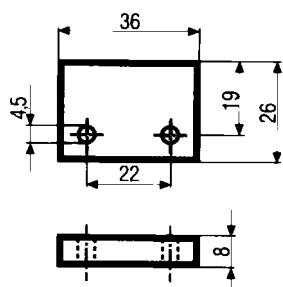
350 003

for magnet 304 221 12



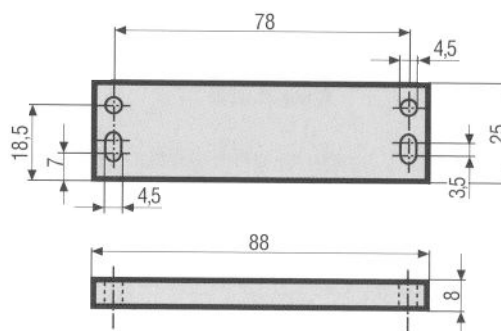
350 004

for sensor 153 262/magnet 304 281 12.



350 005

for sensor 165 262/magnet 304 261 12



material: PE black

Anti-tamper mounting screws

To prevent the unauthorised removal of the sensor and magnet fixing screws, we recommend the use of our socked head inserts.

Type 351 040 for hexagon socket screws DIN 912/M 4,

Type 351 041 for hexagon socket screws DIN 912/M 5,

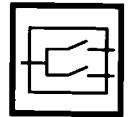
Type 351 042 for hexagon socket screws DIN 7991/M 4.

100 pcs. per pack.

We reserve the right to change specifications without notice.

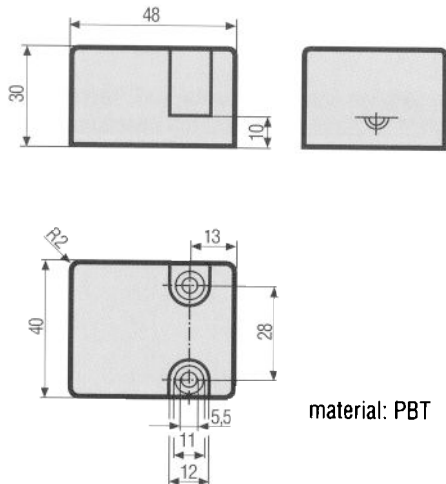


material: PA black

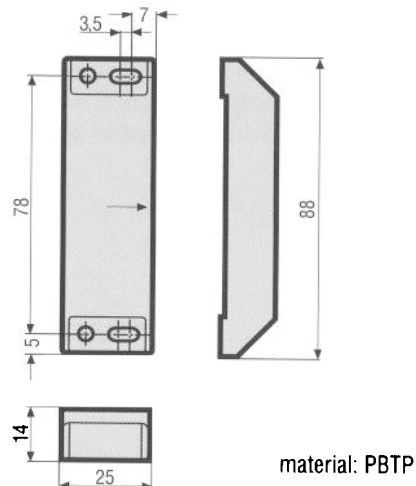


These strong magnet systems, marked through „S“ resp. „Q“ at the 9th position, increase the operating distance at our Machine Safety Switch Sensors 120 262/161 262/165 262/171 262 as shown in the table below.

304 221 12 S

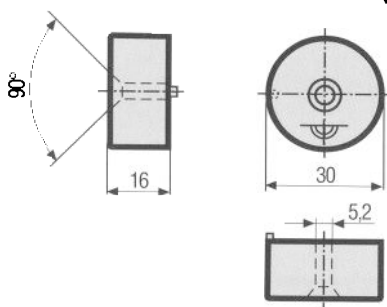


304 261 12 S



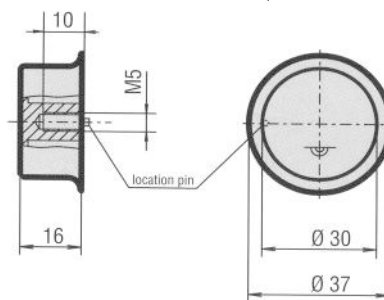
304 200 00

material: S = PBT
VS = stainless steel



Hygiene magnet 304 200 00 SH*

meets European hygiene standard CEN/TC 153/HN108E



material: stainless steel

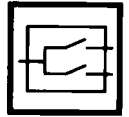
* also available as "normal" magnet (no. 304 200 00 VH).

Strong magnet system operating distances

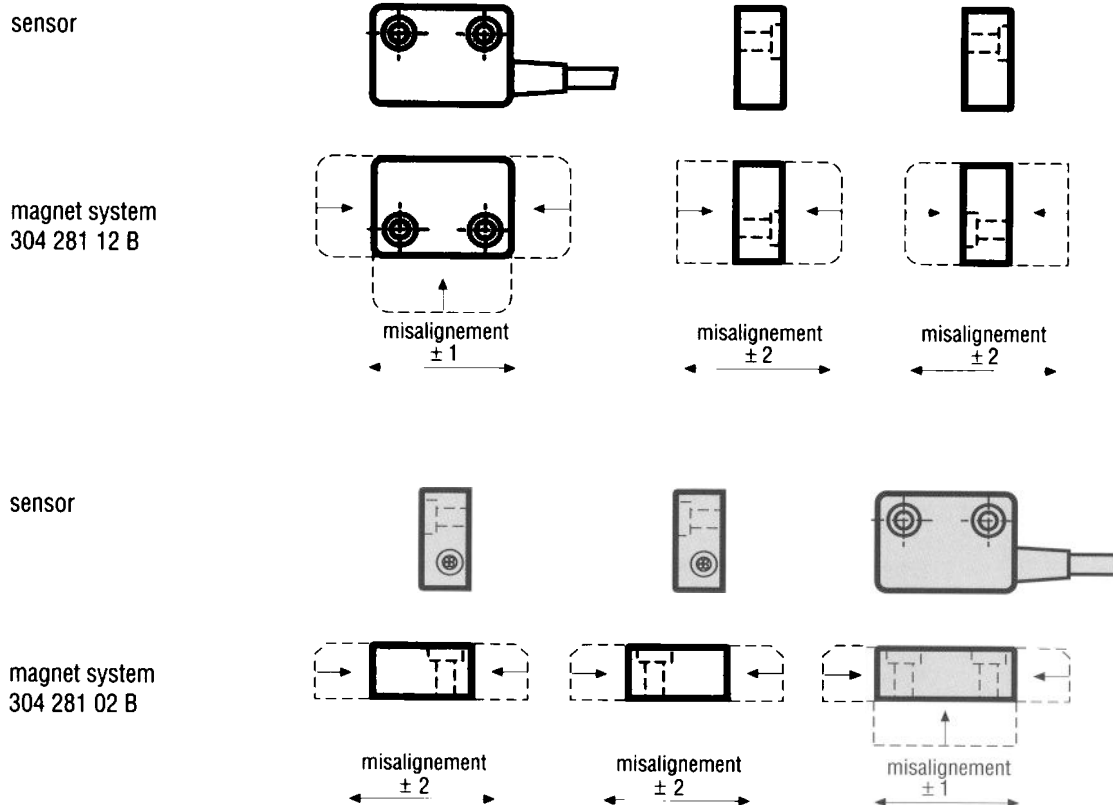
type no.	ON	OFF	min. distance sensor/magnet
120 262	7 mm	20 mm	3 mm
161 262	7 mm	20 mm	3 mm
165 262	7 mm	18 mm	3 mm
171 262	7 mm	20 mm	3 mm

Attention!

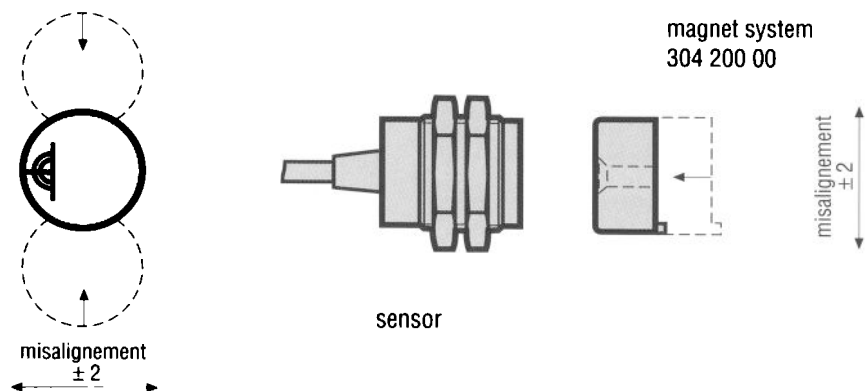
These strong magnets should only be used, if the application requires an air gap bigger than 4 mm between sensor and magnet. Please ensure that the maximum opening gaps of the door are not exceeded.



Alternative magnet operating directions and mounting tolerances 153 262*



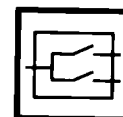
171 262*



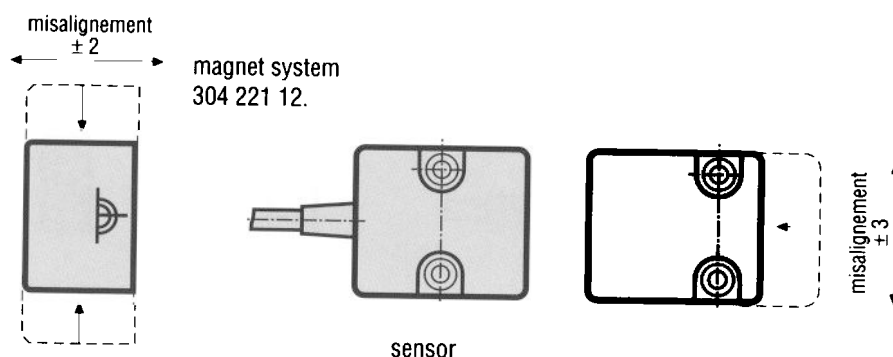
Note: the operating distance could be less

*USL-/CNL-registered sensors

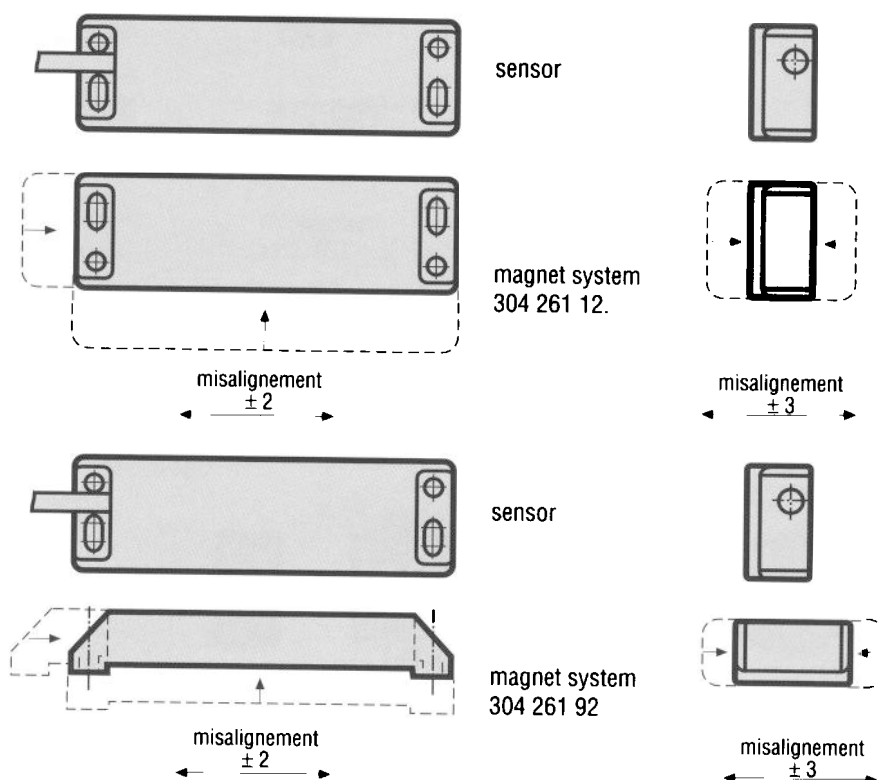
We reserve the right to change specifications without notice.



Alternative magnet operating directions and mounting tolerances 161 262*



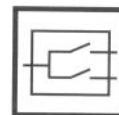
165 262*



*USL-/CNL-registered sensors

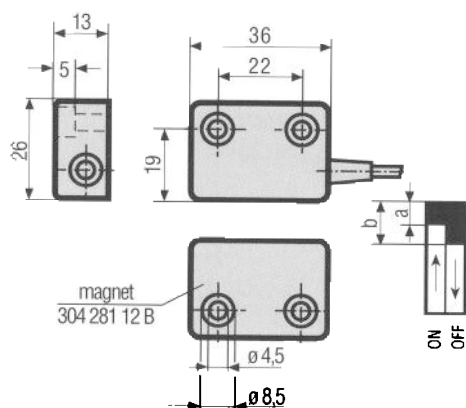
Note: the operating distance could be less

We reserve the right to change specifications without notice.



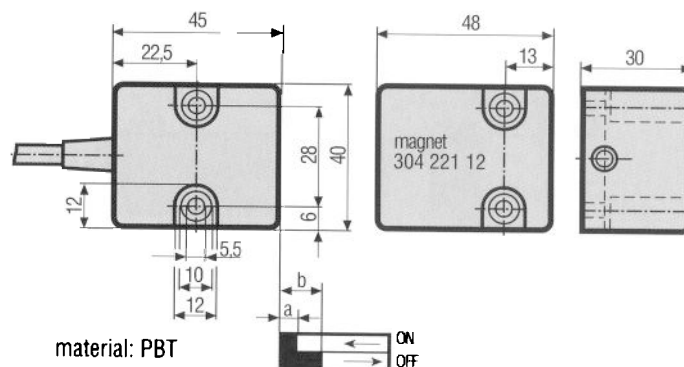
Sensors for Central Control Units 462 141 E1/H1/462 151 H1/462 M41 H3./462 M51 H.1

153 262/153 V62*

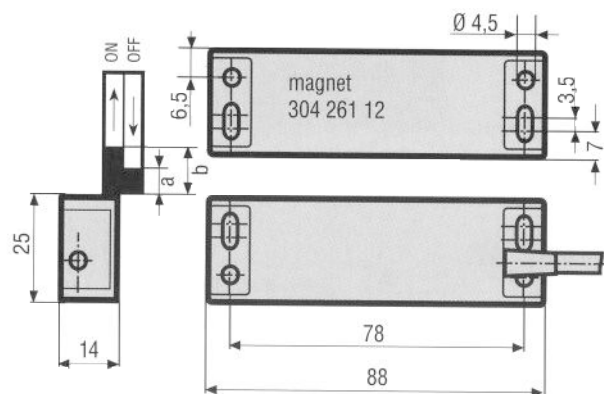


material: PBT

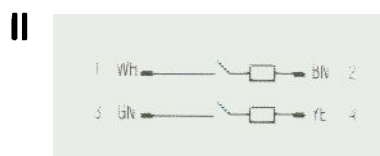
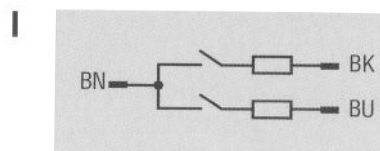
161 262/161 V62*



165 262/165 V62*



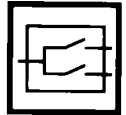
material: PBT



type no.	protection class IEC 529	air gaps for reliable switching function		temperature range (°C)	compatible magnet system	circuit diagram
		a	b (mm)			
153 262	IP 67	$> 0,5/\leq 3$	min. 10	-25...+75	304 281 12 .	I
161 262	IP 67	$> 0,5/\leq 4$	min. 16	-25...+75	304 221 12 .	I
165 262	IP 67	$> 0,5/\leq 4$	min. 16	-25...+75	304 261 12 .	I
153 V62	IP 67	$> 0,5/\leq 3$	min. 10	-25...+75	304 281 12 .	II
161 V62	IP 67	$> 0,5/\leq 4$	min. 16	-25...+75	304 221 12 .	II
165 V62	IP 67	$> 0,5/\leq 4$	min. 16	-25...+75	304 261 12 .	II

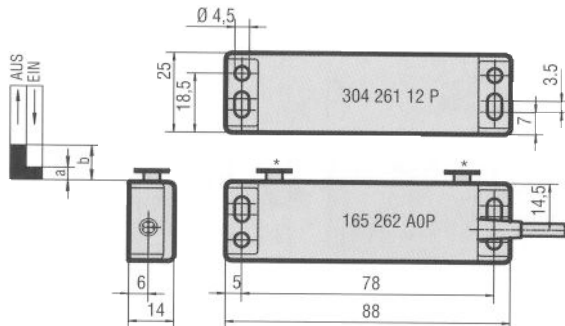
*USL-/CNL-registered sensors

We reserve the right to change specifications without notice. Only sensors listed above should be connected to elobau central control units.



Sensors for Central Control Units 462 141 E1/H1/462 151 H1/462 M41 H3./462 M51 H.1

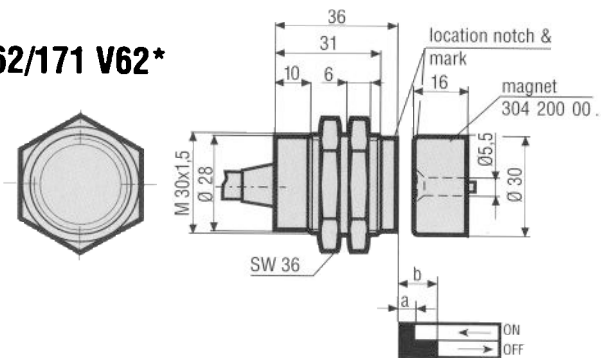
165 262 A0P*



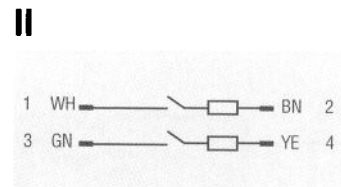
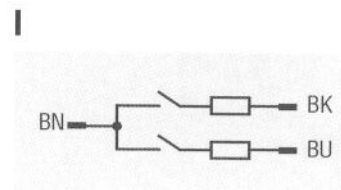
* buffers have free movement of approx. 3 mm
(door should be free from play with buffers fully out)
retention force: approx. 20 N

material: PBT

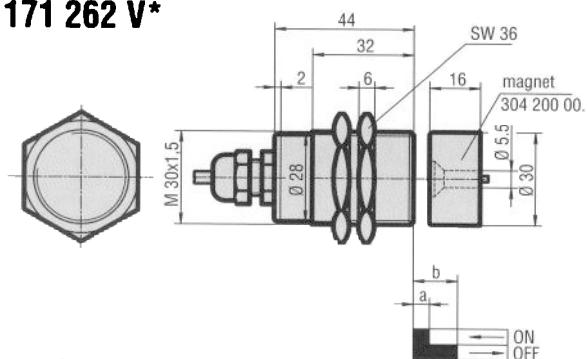
171 262/171 V62*



material: PBT

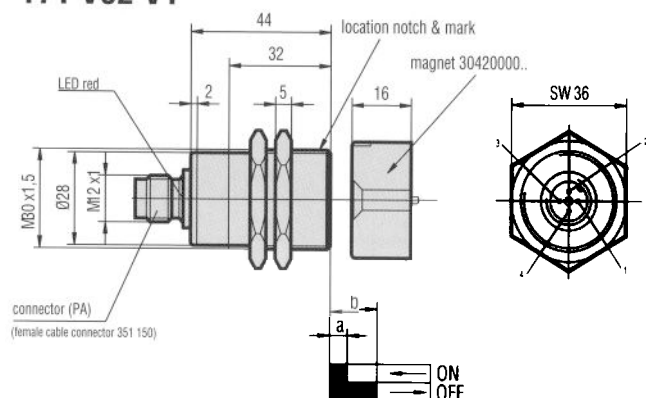


171 262 V*



material: VA

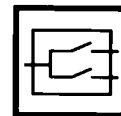
171 V62 VY



Type no.	protection class IEC 529	air gaps for reliable switching function		temperature range (°C)	compatible magnet system	circuit diagram
		a	b	(mm)		
165 262 A0P	IP 67	> 0,5/≤ 4	min. 16	-25...+75	304 261 12 P	I
171 262	IP 67	> 0,5/≤ 4	min. 16	-25...+75	304 200 00 ..	I
171 262 V	IP 67	> 0,5/≤ 4	min. 16	-25...+75	304 200 00 ..	I
171 V62	IP 67	> 0,5/≤ 4	min. 16	-25...+75	304 200 00 ..	II
171 V62 VY	IP 67	> 0,5/≤ 4	min. 16	-25...+75	304 200 00 ..	II

*USL-/CNL-registered sensors

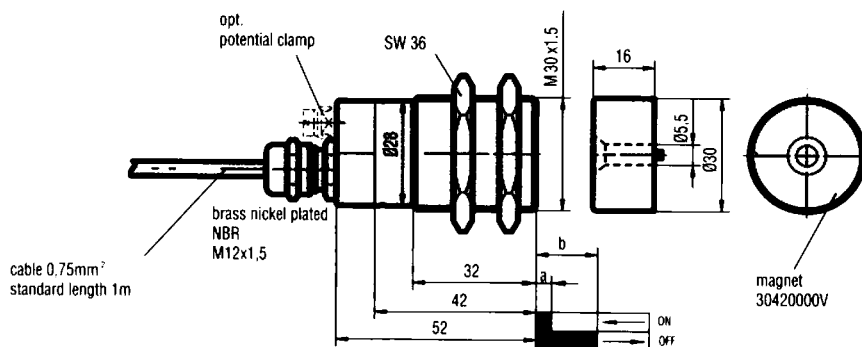
We reserve the right to change specifications without notice.



Sensors for Central Control Units 462 141 E1/H1/462 151 H1/462 M41 H3./462 M51 H.1

Intrinsically safe type, can not be used in connection with elobau-central control units.

671 262..0/671 V62..0 approved to 94/9 EG (ATEX) */**

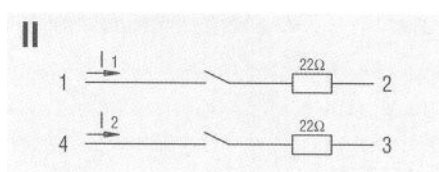
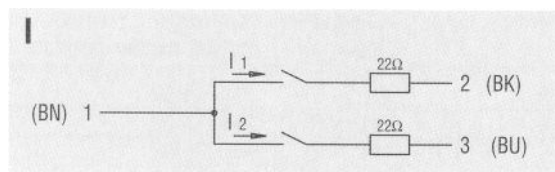


material: stainless steel

type no.	switching voltage (V)	switching current I_1, I_2 (A)	continuous current I_1, I_2 (mA)	switching power (W/VA)	temperature range (°C)	resistance
671 262 ..0	24 AC/DC	0,5 (2 sec.)	max. 50	5/5	-25 ...+75	DCA 1206; 22Ω; 0,25W
671 V62 ..0	24 AC/DC	0,5 (2 sec.)	max. 50	5/5	-25 ...+75	DCA 1206; 22Ω; 0,25W

protection class IEC 529	air-gaps for reliable switching functions		recommended operating magnet	circuit diagram
	a	b (mm)	(For other magnets, please consult the factory.)	
0,5/≤ 4	min. 16		304 200 00 V.	I
0,5/≤ 4	min. 16		304 200 00 V.	II

cable U = UL version (PVC) 0,75 mm² -5°C...+80°C (-40°C...+80°C)
 Ex version M = encapsulation (m)
 I = intrinsically safe (ia)

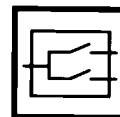


* USL-/CNL-registered sensors

** Applied for approval (according to EEx ia IIC T4/T5/T6)
Applied for approval (according to EEx m IIC T4/T5/T6)

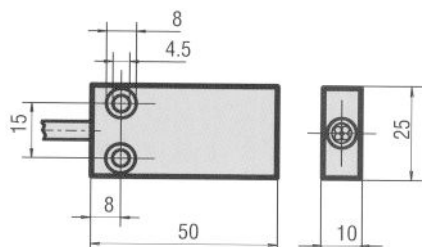
zone 0/cat. 1 (ia)
 zone 1/cat. 2 (m)
 zone 21/cat. 2 (m)

We reserve the right to change specifications without notice.



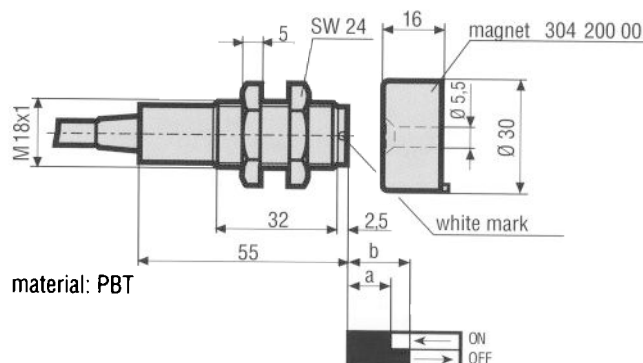
Sensors for Central Control Units 462 141 E1/H1/462 151 H1/462 M41 H3./462 M51 H.1

114 262*/114 V62*



material: PBT

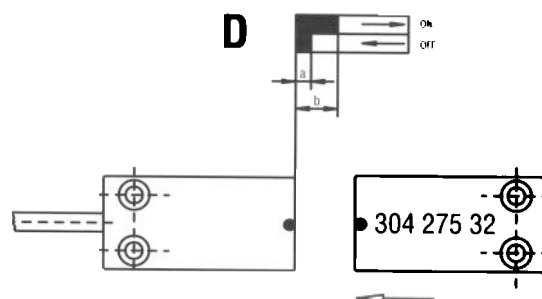
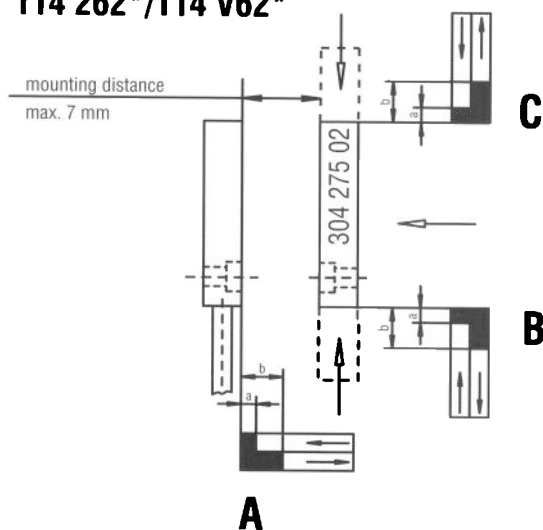
120 262*/120 V62*



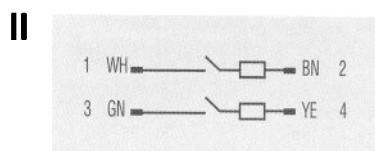
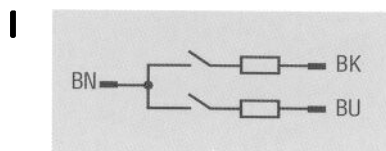
material: PBT

actuation possibilities

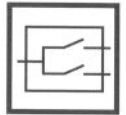
114 262*/114 V62*



misalignement sensor-magnet max. 3 mm
Note: the operating distance could be less !

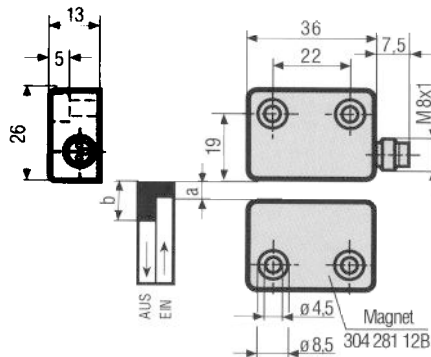


type no.	protection class IEC 529	air gaps for reliable switching function a b (mm)		drive	temperature range (°C)	compatible magnet system diagram	circuit
114 262	IP 67	> 0,5/≤ 7	min.15	A	-25...+75	304 275 02	I
114 262	IP 67	typ. 8	typ. 12	B	-25...+75	304 275 02	I
114 262	IP 67	typ. 8	typ. 12	C	-25...+75	304 275 02	I
114 262	IP 67	> 0,5/≤ 4	min. 13	D	-25...+75	304 275 32	I
114 V62	IP 67	> 0,5/≤ 7	min.15	A	-25...+75	304 275 02	II
114 V62	IP 67	typ. 8	typ. 12	B	-25...+75	304 275 02	II
114 V62	IP 67	typ. 8	typ. 12	C	-25...+75	304 275 02	II
114 V62	IP 67	> 0,5/≤ 4	min. 13	D	-25...+75	304 275 32	II
120 262	IP 67	> 0,5/≤ 4	min. 18		-25...+75	304 200 00 ..	I
120 V62	IP 67	> 0,5/≤ 4	min. 18		-25...+75	304 200 00 ..	II



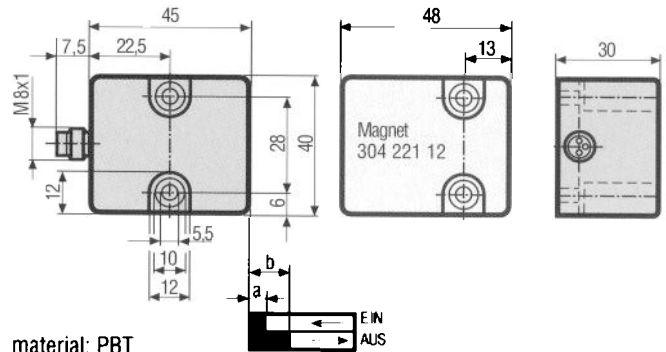
Sensors for Central Control Units 462 141 E1/H1/462 151 H1/462 M.1 H1

153 262 AFA*



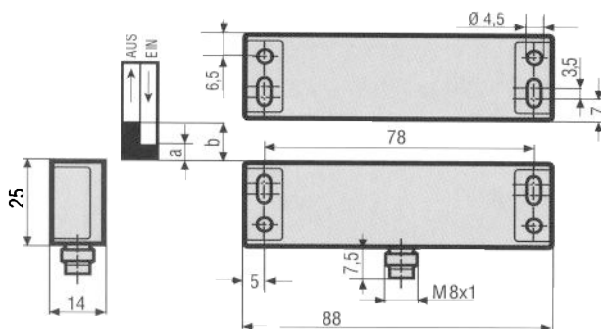
material: PBT

161 262 AFA*



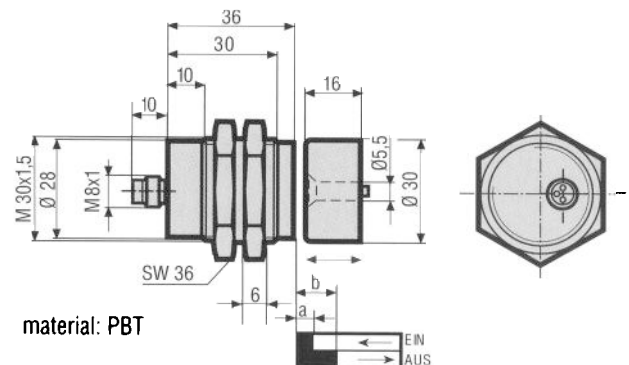
material: PBT

165 262 AFA*



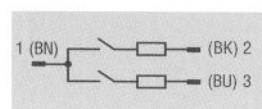
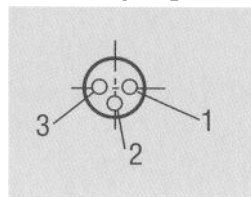
material: PBT

171 262 AFA*



material: PBT

view of plug



type no.	protection class IEC 529	air gaps for reliable switching function a	b (mm)	temperature range (°C)	compatible magnet system
153 262 AFA ¹⁾	IP 67	> 0,5/≤ 3	min. 10	-25 ...+75	304 281 12 .
161 262 AFA ¹⁾	IP 67	> 0,5/≤ 4	min. 16	-25 ...+75	304 221 12 .
165 262 AFA ¹⁾	IP 67	> 0,5/≤ 4	min. 16	-25 ...+75	304 261 12 .
171 262 AFA ¹⁾	IP 67	> 0,5/≤ 4	min. 16	-25 ...+75	304 200 00

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¹⁾ Cable sets see chapter X I

*USL-/CNL-registered sensors