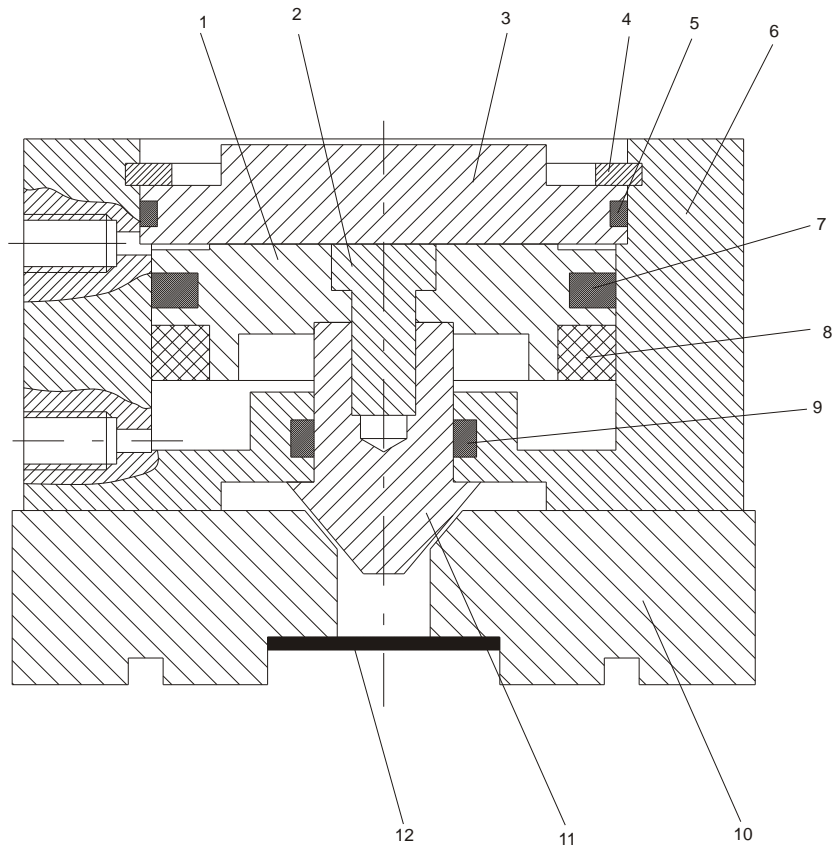


3 Finger parallel style pneumatic grippers
 Component description

Series 6312



3



Pos.	Item	Qty.	Pos.	Item	Qty.
1	Piston	1	7	Piston seal	1
2	Piston nut	1	8	Magnet	1
3	End plate	1	9	Wedge seal	1
4	Circlip	1	10	Fingers	3
5	End plate seal	1	11	Wedge	1
6	Body	1	12	Cap	1



Ordering code

6312.Ø.D

- 16
- 20
- 25
- 32
- 40
- 50
- 63
- 80
- 100
- 125

For sensors P/N see page 3.38 e 3.39

Construction characteristics

Body	aluminium
Piston	aluminium
Wedge	steel
Fingers	steel

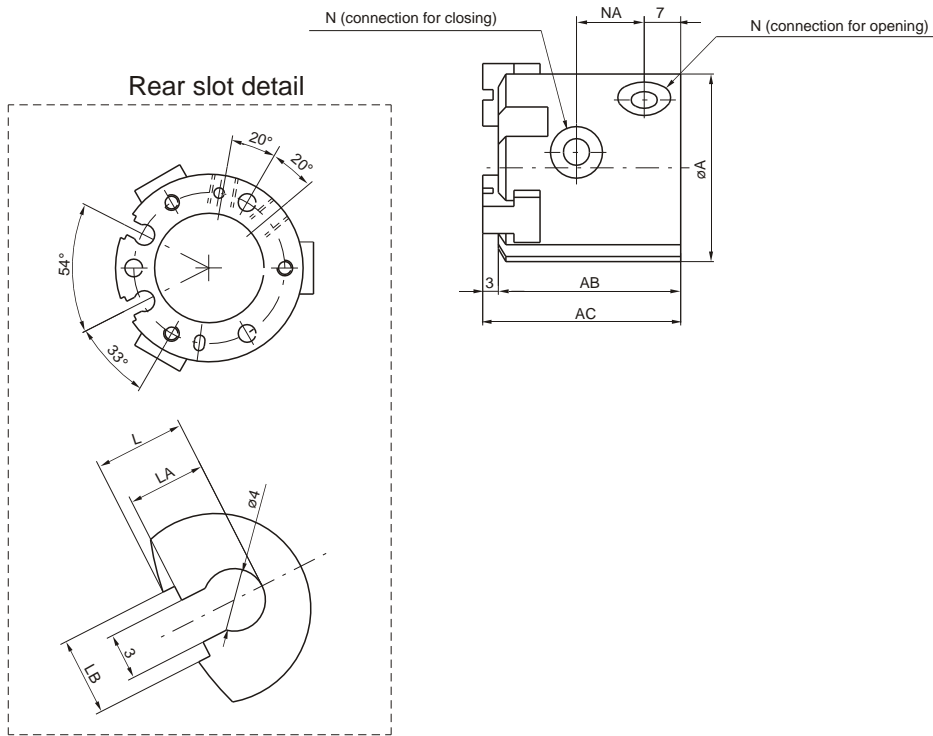
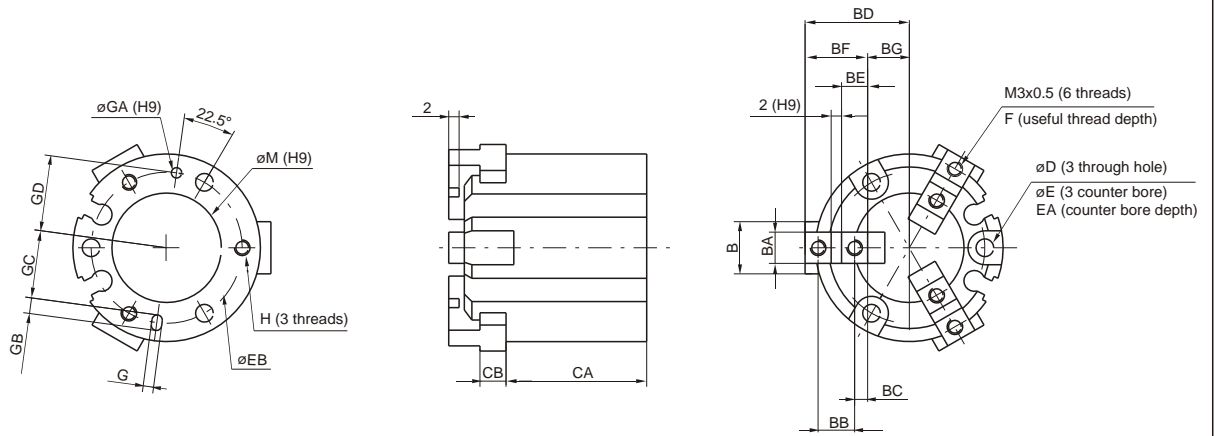
Technical characteristics

Fluid	filtered and non lubricated air
Function	double acting
Working pressure	2÷6 bar (ø16 - ø20 - ø25) - 1÷6 bar (ø32 ÷ ø125)
Working temperature	-5°C ÷ +70°C

3 Finger parallel style pneumatic grippers

Overall dimensions

Series 6312



Bore	ØA	AB	AC	B	BA (h9)	BB	BC	BD	BE	BF	BG	CA	CB	D	E	EA	EB	F	G (H9)	ØGA (H9)	GB		
Ø16	30	32	35	8	5	6	2	17	15	4	10	7	5	25	4	3,4	6,5	8	25	5	2 (depth2)	2 (depth2)	3
Ø20	36	35	38	10	6	7	2,5	20	18	5	12	8	6	27	5	3,4	6,5	9,5	29	6	2 (depth2)	2 (depth2)	3
Ø25	42	37	40	12	6	8	3	24	21	6	14	10	7	28	5	4,5	8	10	34	6	3 (depth3)	3 (depth3)	5

open close open close

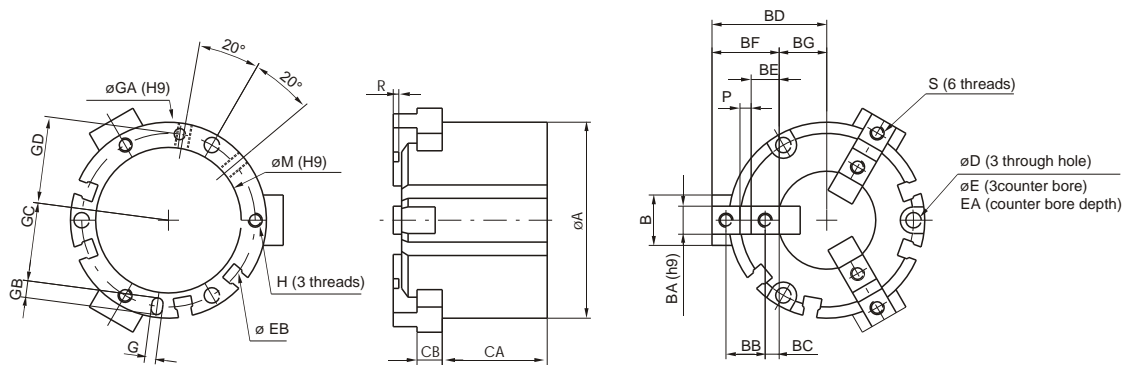
Bore	GC	GD	H	L	LA	LB	ØM (H9)	N	NA
Ø16	11	12,5	M3x0,5 (usef ul d ept h 4,5)	5	-	-	17 (d ept h 1,5)	M3x0,5	11
Ø20	13	14,5	M3x0,5 (usef ul d ept h 6)	6	5	5	21 (d ept h 1,5)	M5x0,8	13
Ø25	14,5	17	M4x0,7 (usef ul d ept h 6)	6,5	5	5	26 (d ept h 1,5)	M5x0,8	15



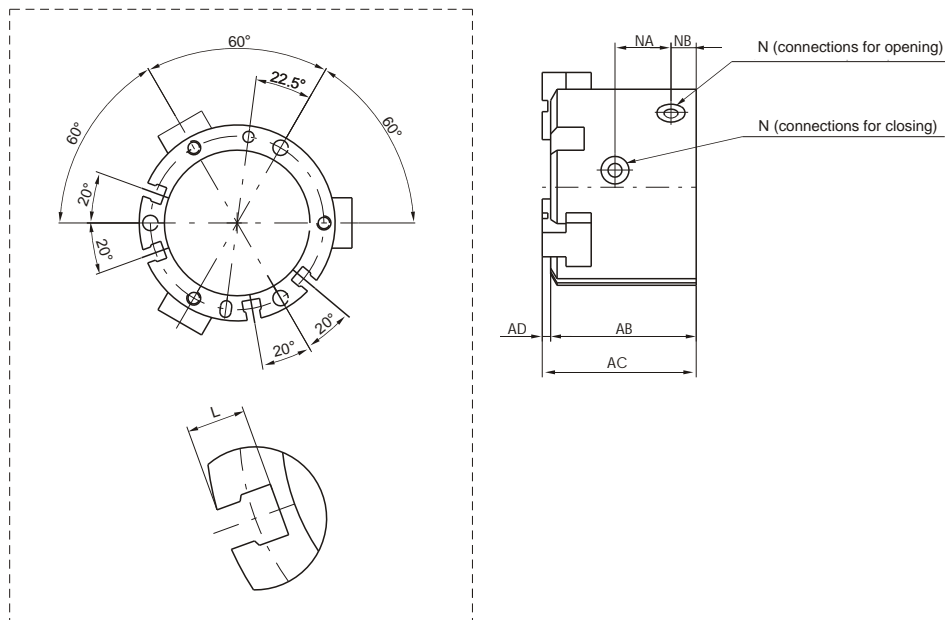
3 Finger parallel style pneumatic grippers

Overall dimensions $\varnothing 32-80$

Series 6312



Sensor slots detail



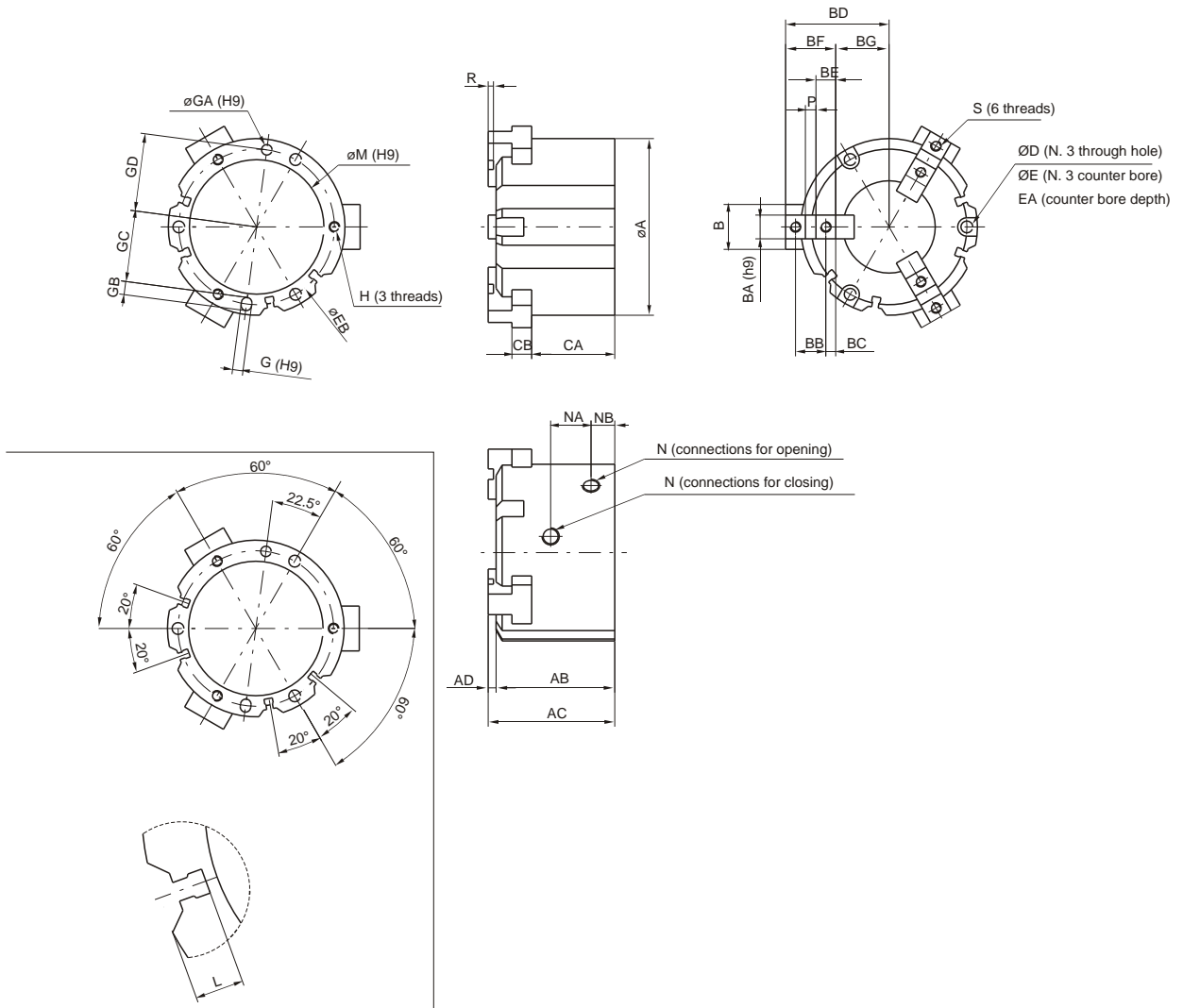
Bore	$\varnothing A$	AB	AC	AD	B	BA (h9)	BB	BC	BD	BE	BF	BG	CA	CB	D	E	EA	EB	H		
$\varnothing 32$	52	41	44	3	14	8	11	4,5	32	28	9	20	12	8	30,5	6	4,5	8	9	44	M4x0,7 (usef ul d ept h 6)
$\varnothing 40$	62	44	47	3	16	8	12	4,5	35	31	9	21	14	10	32	7	5,5	9,5	9	53	M5x0,8 (usef ul d ept h 7,5)
$\varnothing 50$	70	52	55	3	18	10	14	5	41	35	10	24	17	11	37,5	9	5,5	9,5	12	62	M5x0,8 (usef ul d ept h 10)
$\varnothing 63$	86	62	66	4	24	12	17	5,5	51	43	11	28	23	15	44	11	6,6	11	14	76	M6x 1 (usef ul d ept h 9)
$\varnothing 80$	106	77	82	5	28	14	20	6	63,5	53,5	12	32	31,5	21,5	56	12	6,6	11	19	95	M6x 1 (usef ul d ept h 12)

open close open close

Bore	G (H9)	$\varnothing GA$ (H9)	GB	GC	GD	L	N	$\varnothing M$ (H9)	NA	NB	P (h9)	R	S
$\varnothing 32$	3 (usef ul d ept h 3)	3 (usef ul d ept h 3)	5	19,5	22	6	M5x0,8	34 (usef ul d ept h 2)	16	8	2	2	M4x0,7 (usef ul d ept h 8)
$\varnothing 40$	4 (usef ul d ept h 4)	4 (usef ul d ept h 4)	6	23,5	26,5	8	M5x0,8	42 (usef ul d ept h 2)	17	9	3	2	M4x0,7 (usef ul d ept h 8)
$\varnothing 50$	4 (usef ul d ept h 4)	4 (usef ul d ept h 4)	6	28	31	7	M5x0,8	52 (usef ul d ept h 2)	20	9	4	2	M5x0,8 (usef ul d ept h 10)
$\varnothing 63$	5 (usef ul d ept h 5)	5 (usef ul d ept h 5)	7	34,5	38	7,5	M5x0,8	65 (usef ul d ept h 2,5)	22	12	6	3	M5x0,8 (usef ul d ept h 10)
$\varnothing 80$	6 (usef ul d ept h 6)	6 (usef ul d ept h 6)	8	43,5	47,5	9	G1/8	82 (usef ul d ept h 3)	27	13,5	8	4	M6x 1 (usef ul d ept h 12)

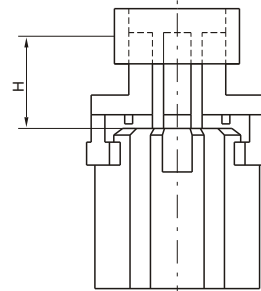
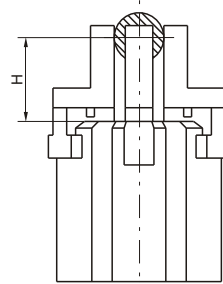
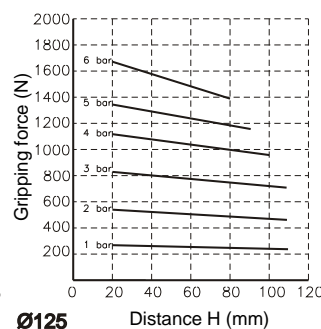
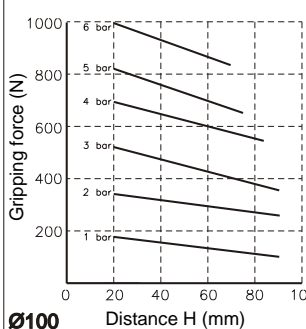
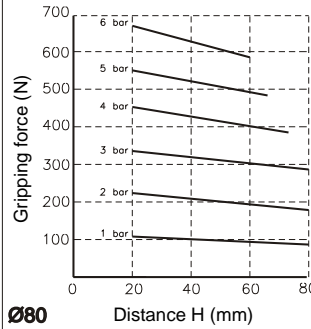
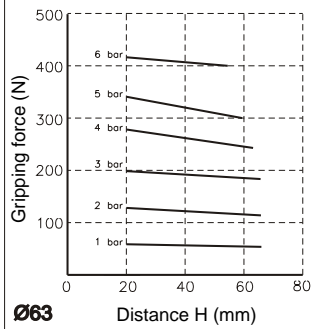
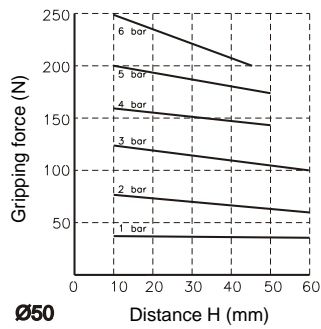
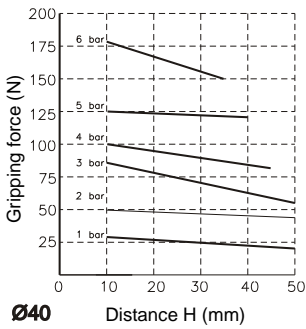
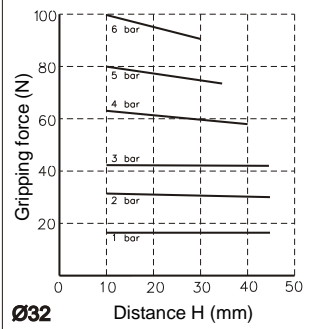
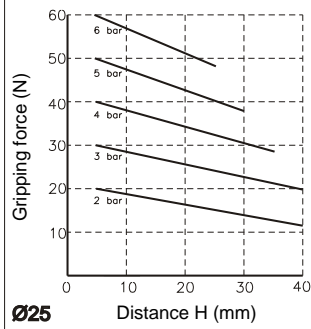
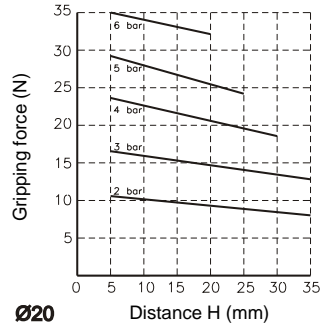
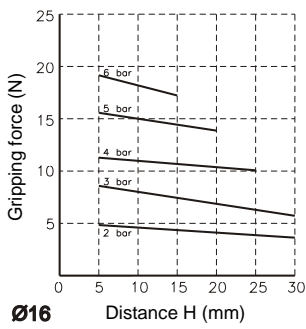
3 Finger parallel style pneumatic grippers
Overall dimensions $\varnothing 100 \div 125$

Series 6312



Bore	ØA	AB	AC	AD	B	BA (h9)	BB	BC	BD	BE	BF	BG	CA	CB	ØD	ØE	EA	EB	G (H9)			
Ø100	134	90	96	6	34	18	23	7,5	78	66	15	38	40	28	63	15	9	14	21	118	8 (useful depth h 6)	
Ø125	166	114	122	8	40	22	31	10,5	98	82	21	52	46	30	84	18	11	17,5	34	148	10 (useful depth h 8)	
									open	close												

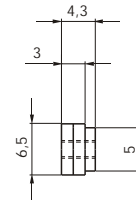
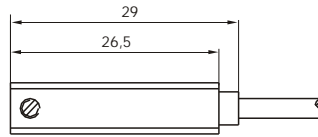
Bore	ØGA (H9)	GB	GC	GD	H	L	ØM (H9)	N	NA	NB	P (h9)	R	S
Ø100	8 (useful depth h 6)	10	54	59	M8x1,25 (useful depth h 16)	13	102 (useful depth h 4)	G1/4	30,6	18	8	4	M8x1,25 (useful depth h 16)
Ø125	10 (useful depth h 8)	12	68	74	M10x1,5 (useful depth h 20)	15	130 (useful depth h 6)	G3/8	38	23,5	10	6	M10x1,5 (useful depth h 20)



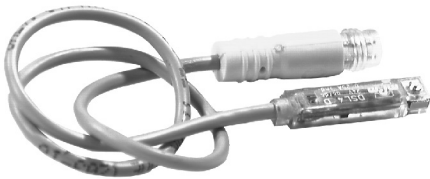
Sensor c/w 2,5 m. cable



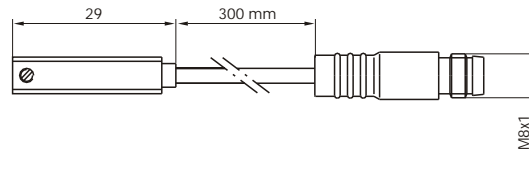
Weight gr. 27



Sensor c/w M8 connector (300 mm cable)



Weight gr. 15



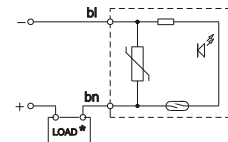
Ordering codes

1580.U	Reed bulb sensor with led and 2.5 m cable
1580.HAP	PNP sensor Hall effect with led and 2.5 m cable
MRS.U	Reed bulb sensor with led and connector
MHS.P	PNP sensor Hall effect with led and connector
MC1	M8 in line connector with 2.5 m cable (2 wires)
MC2	M8 in line connector with 5 m cable (2 wires)
MCH1	M8 in line connector with 2.5 m cable (3 wires)
MCH2	M8 in line connector with 5 m cable (3 wires)

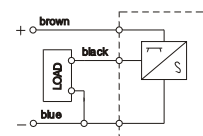
Technical characteristics

	1580.U	MRS.U	1580.HAP	MHS.P
Type of contact	N.O.			
Maximum current (pulses of 0.5 sec)	0,1A			0,2A
Maximum permanent current	0,1A			0,2A
Maximum permanent power	6VA			4W
Voltage range A.C.	3 ÷ 30V			/
Voltage range D.C.	3 ÷ 30V			12 ÷ 30V
Working temperature	-20° C ÷ 70° C			
Maximum voltage drop	3V			
Cable section	2x0,14			3x0,14
Degree of protection	IP 65			
Connecting time	0,5 ms			0,8 ms
Disconnecting time	0,1 ms			0,3 ms
Average life (operations)	10 ⁷			10 ⁹
Repetition of intervention point	± 0,1			

Diagrams and connection



With Reed bulb



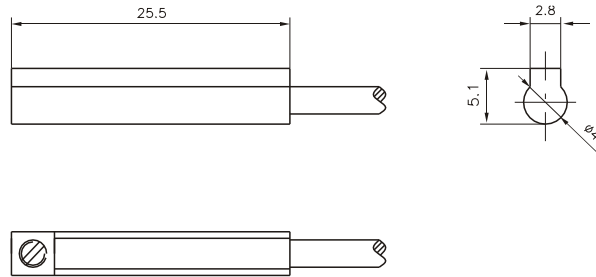
Hall effect

NOTE: Pay attention to the connected loads which should not exceed recommendations

*Reed bulb sensor: connection can be done either to negative or positive pole



Sensor c/w 1 m. Cable



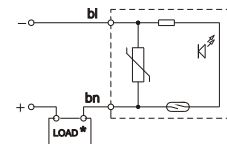
Ordering codes

1581.U	Reed bulb sensor with led and 1 m cable
1581.HAP	PNP sensor Hall effect with led and 1 m cable
1581.HAN	NPN sensor Hall effect with led and 1 m cable

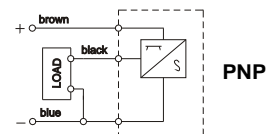
Technical characteristics

	1581.U	1581.HAP	1581.HAN
Type of contact	N.O.		
Maximum current	100mA	200mA	
Maximum permanent power	10W	6W	
Voltage range	5÷120VDC/AC	5 ÷ 30V DC	
Working temperature	-10° C ÷ 70°C		
Maximum voltage drop	/	0,5V	
Cable section	2, ø2,8	3,ø2,8	
Degree of protection	IP 67		

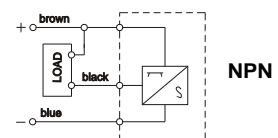
Diagrams and connection



With Reed bulb



PNP

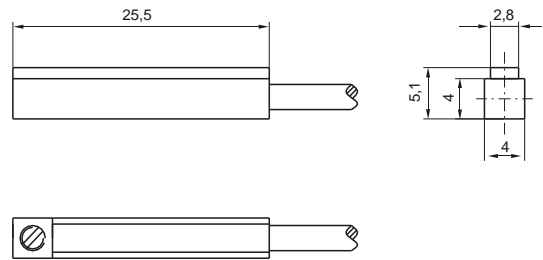


NPN

Hall effect



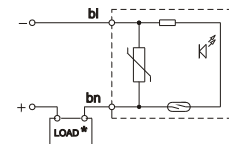
Sensor c/w 1 m. Cable



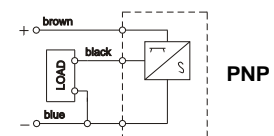
Ordering codes

1582.U	Reed bulb sensor with led and 1 m cable
1582.HAP	PNP sensor Hall effect with led and 1 m cable
1582.HAN	NPN sensor Hall effect with led and 1 m cable

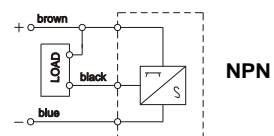
Diagrams and connection



With Reed bulb



PNP



NPN

Hall effect

Technical characteristics

	1582.U	1582.HAP	1582.HAN
Type of contact	N.O.		
Maximum current	100mA	200mA	
Maximum permanent power	10W	6W	
Voltage range	5÷120VDC/AC	5÷30V DC	
Working temperature	-10° C ÷ 70°C		
Maximum voltage drop	/	0,5V	
Cable section	2, ø2,8	3, ø2,8	
Degree of protection	IP 67		