

TWIN CYLINDER SERIES S10

There are two sliding systems available:

- on bushes
- on ball recirculating bearings

The frame is made up of two paired cylinders with a common anodized aluminium body containing slots for retracting sensors.

There are 5 bores available:

2 x Ø12, 2 x Ø16, 2 x Ø20, 2 x Ø25 and 2 x Ø30



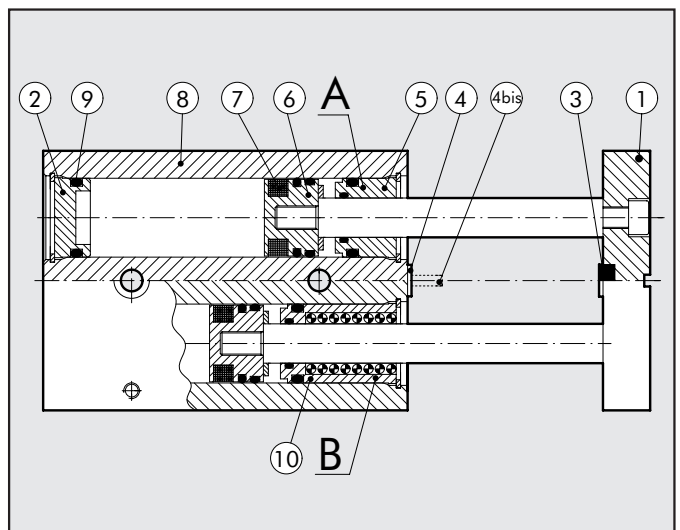
TECHNICAL FEATURES		S10-12	S10-16	S10-20	S10-25	S10-30
Pressure range	bar	3 to 7				
Temperature range	°C	5 to +60				
Fluid		20µm dried or lubricated filtered air. Lubrication, if used, must be continuous.				
Piston speed	mm/s	30 to 100 mm/s				
Versions		System with sliding bushes / System with ball bushes available with stop screw or hydraulic decelerator				
Sizes		12	16	20	25	30
Bores	mm	2 x 12	2 x 16	2 x 20	2 x 25	2 x 30
Piston rod diameter	mm	6	8	10	12	16
Strokes	mm	15	15	25	25	25
	mm	25	25	50	50	50
	mm	50	50	75	75	75
	mm	-	75	100	125	125
Weight (C=stroke)						
Sliding version	Kg	0.12 + (0.002 x C)	0.24 + (0.0025 x C)	0.51 + (0.005 x C)	0.76 + (0.006 x C)	1.3 + (0.009 x C)
Ball bearing version	Kg	0.21 + (0.002 x C)	0.48 + (0.0025 x C)	0.77 + (0.005 x C)	0.18 + (0.006 x C)	1.92 + (0.009 x C)
Theoretical thrust		Multiply the value shown by the pressure in bar				
Thrust force (ΔP = pressure in bar)	da N	2.26 x ΔP	4 x ΔP	6.28 x ΔP	9.8 x ΔP	14.1 x ΔP
Pull force	da N	1.69 x ΔP	3 x ΔP	4.11 x ΔP	7.5 x ΔP	10.1 x ΔP
Max. loads		(The values shown refer to the min. and max. strokes)				
Sliding version	N	3 to 1.5	6 to 3	10 to 3.5	12 to 5.6	20 to 7
Ball bearing version	N	6 to 4	11 to 6	20 to 7	26 to 8	36 to 11

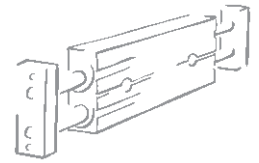
COMPONENTS

- ① FLANGE: anodized aluminium
- ② REAR BASE: anodized aluminium
- ③ BUFFER: rubber
- ④ ADJUSTABLE STRIKER PLATE. Zinc-plated steel
- ④ bis. HYDRAULIC DECELERATOR
- ⑤ FRONT BASE: brass
- ⑥ PISTON: brass
- ⑦ MAGNET: Plastroferrite
- ⑧ CYLINDER BODY: anodized aluminium
- ⑨ STATIC O-RING: NBR
- ⑩ BALL RE-CIRCULATION BUSH

VERSIONS:

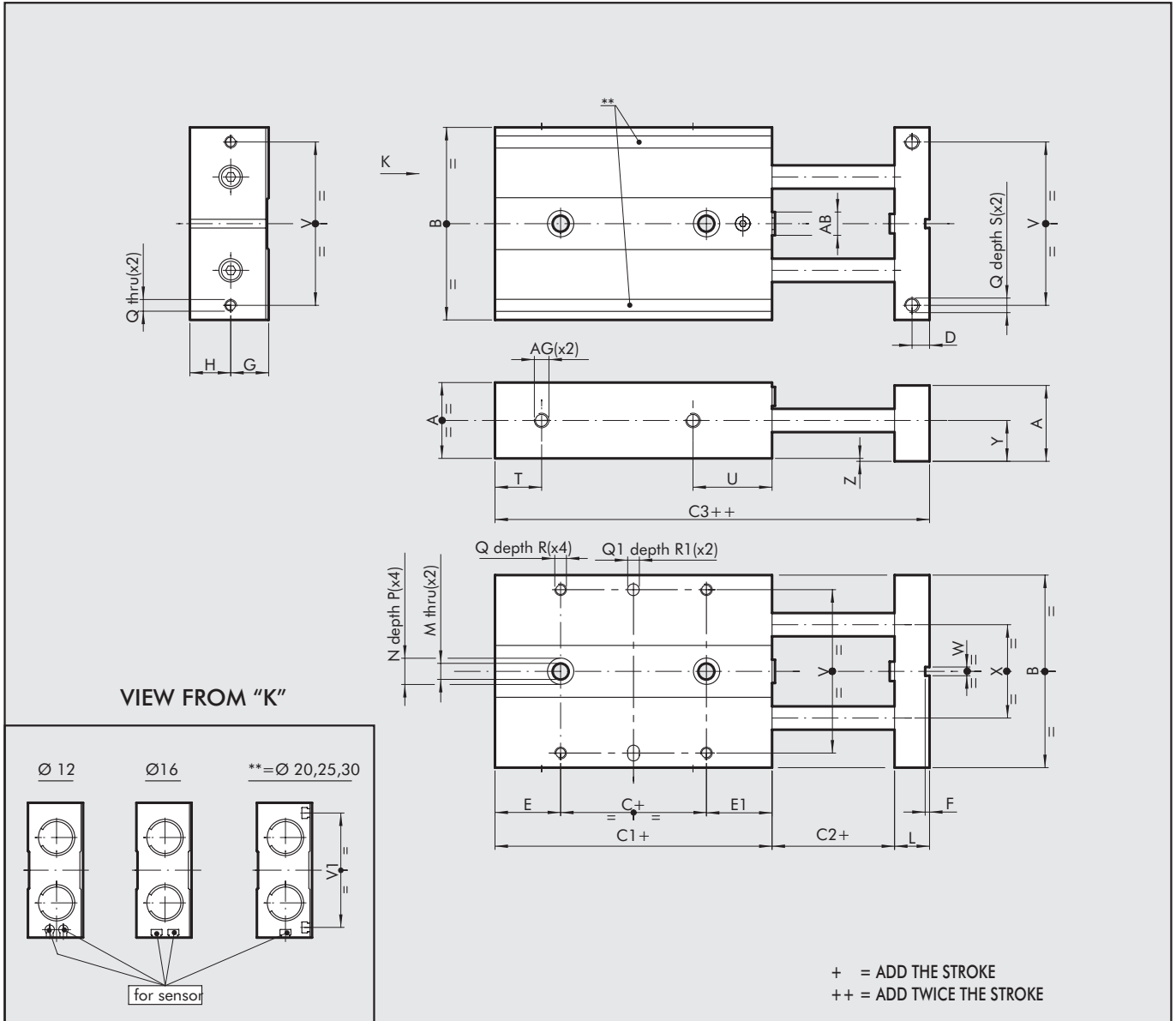
- Ⓐ With sliding bushes
- Ⓑ With ball bushes





DIMENSIONS OF TWIN CYLINDER SERIES S10

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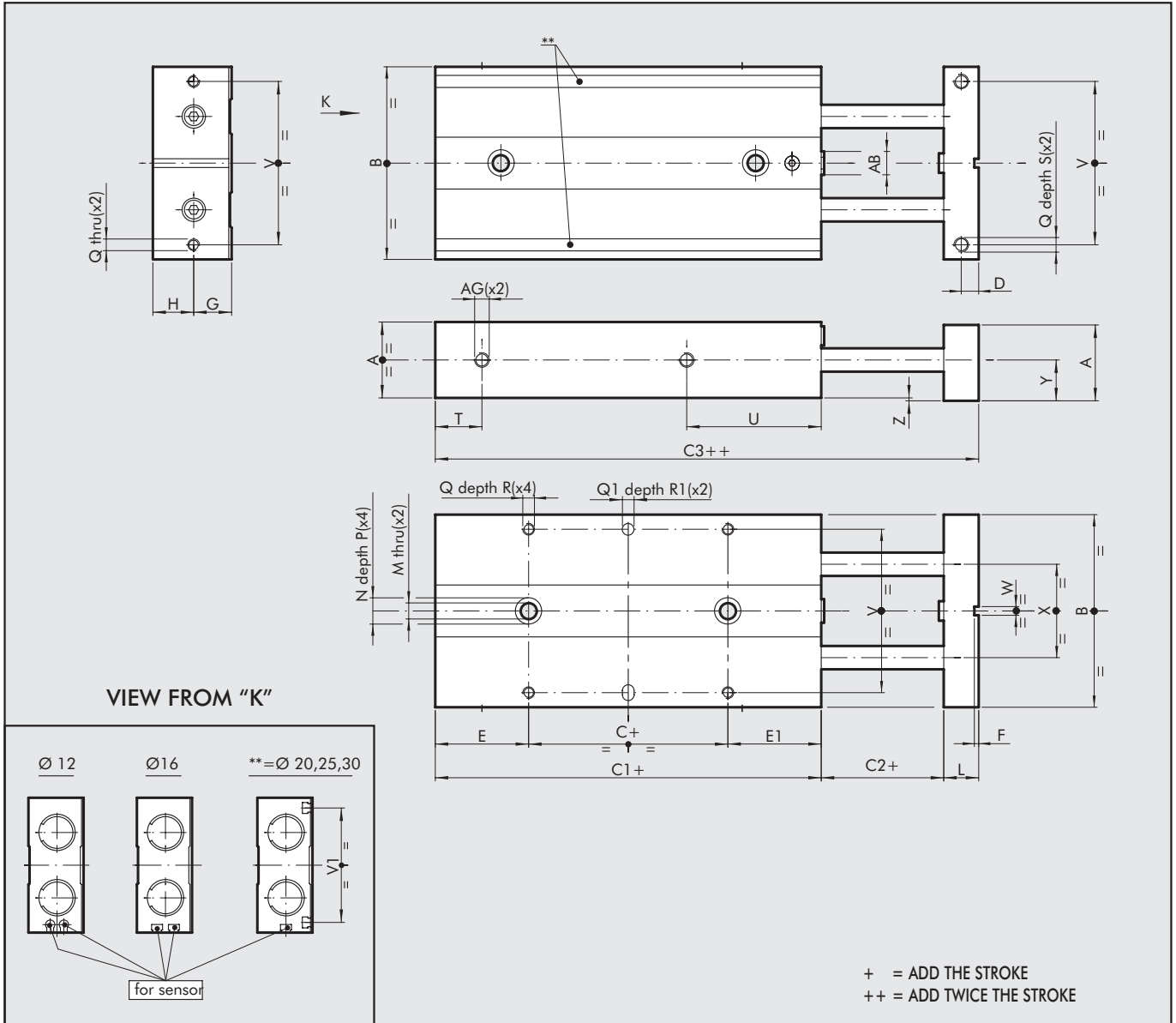
Code	Ø	A	B	C	C1	C2	C3	D	E	E1	F	G	H	L	M	N	P	Q	Q1 ^{H7}	R	R1	S	T
W1440122...*	12	18	46	10	50	2	60	4	20	20	1.5	9	10	8	4.3	8	4	M3	4	5	3	8	9
W1440162...*	16	22	56	16	62	2	74	5	26	20	1.5	11	12	10	4.3	8	4	M4	4	6	3	8	10
W1440202...*	20	26	66	10	68	2	82	6	29	29	1.5	13	14	12	5.5	9	5	M4	4	7	3	10	11
W1440252...*	25	32	78	10	74	2	90	7	32.5	31.5	2.5	16	17	14	6.5	10.5	6	M5	4	7	3	12	11
W1440302...*	30	36	98	10	87	2	105	8	37.5	39.5	2.5	18	19	16	8.5	14	8	M6	6	8	5	12	13

*Enter stroke in mm.

Ø	U	V	V1	W	X	Y	Z	AB	AG
12	28	38	-	3	20	10	1	M5	M5
16	33	46	-	3	26	12	1	M6	M5
20	40	56	54	3	30	14	1	M8	M5
25	42	66	64	5	39	17	1	M10	M5
30	51	86	82	5	52	19	1	M12	G 1/8"

Strokes for bore 12 mm 15; 25; 50;
 Strokes for bore 16 mm 15; 25; 50; 75;
 Strokes for bore 20 mm 25; 50; 75; 100;
 Strokes for bore 25 mm 25; 50; 75; 125;
 Strokes for bore 30 mm 25; 50; 75; 125;

DIMENSIONS OF TWIN CYLINDER SERIES S10, ON BALL BEARINGS

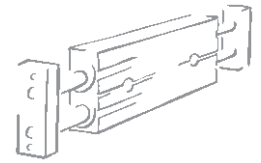


Code	Ø	A	B	C	C1	C2	C3	D	E	E1	F	G	H	L	M	N	P	Q	Q1 ^{H7}	R	R1	S	T
W1440123...*	12	18	46	10	69	2	79	4	29.5	29.5	1.5	9	10	8	4.3	8	4	M3	4	5	3	8	9
W1440163...*	16	22	56	10	90	2	98	5	42	38	1.5	11	12	10	4.3	8	4	M4	4	6	3	8	10
W1440203...*	20	26	66	10	100	2	111	6	46.5	43.5	1.5	13	14	12	5.5	9	5	M4	4	7	3	10	11
W1440253...*	25	32	78	10	108	2	120	7	51.5	46.5	2.5	16	17	14	6.5	10.5	6	M5	4	7	3	12	11
W1440303...*	30	36	98	10	124	2	142	8	56	58	2.5	18	19	16	8.5	14	8	M6	6	8	5	12	13

*Enter stroke in mm.

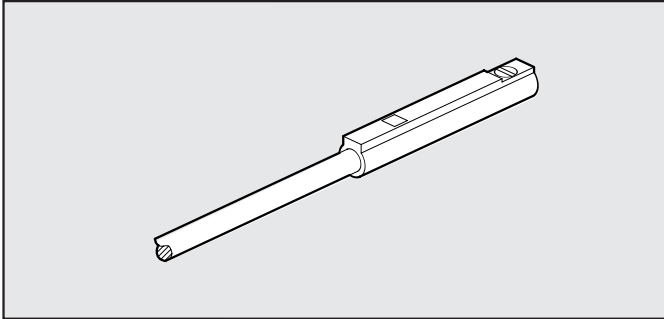
Ø	U	V	V1	W	X	Y	Z	AB	AG
12	47	38	-	3	20	10	1	M5	M5
16	57	46	-	3	26	12	1	M6	M5
20	69	56	54	3	30	14	1	M8	M5
25	72	66	64	5	39	17	1	M10	M5
30	88	86	82	5	52	19	1	M12	G 1/8"

Strokes for bore 12 mm	15; 25; 50;
Strokes for bore 16 mm	15; 25; 50; 75;
Strokes for bore 20 mm	25; 50; 75; 100;
Strokes for bore 25 mm	25; 50; 75; 125;
Strokes for bore 30 mm	25; 50; 75; 125;



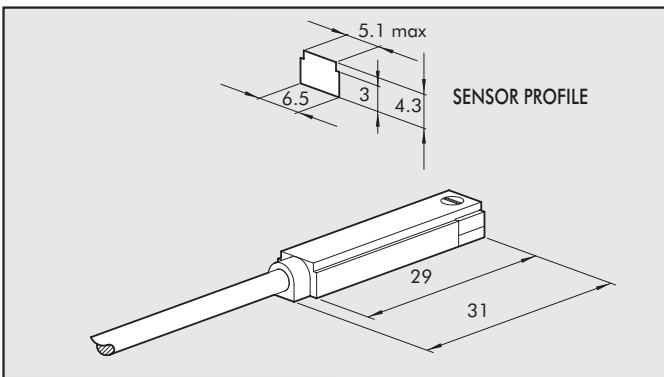
ACCESSORIES

MAGNETIC SENSOR Ø 4, FOR SLIDE S10 Ø12



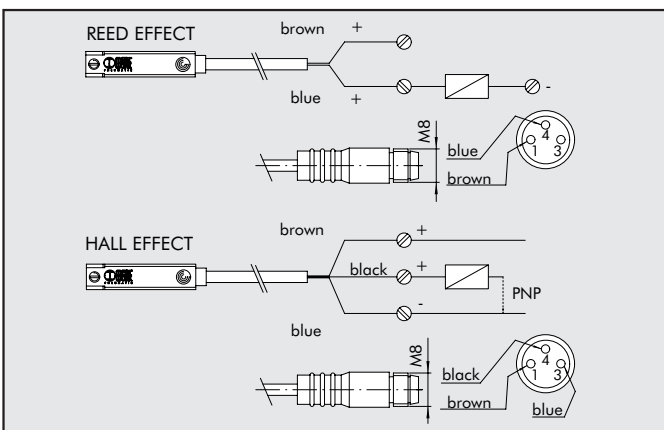
Code	Description
W0950044180	MAGNETIC SENSOR REED 2 WIRES 24VDC 1 m

RETRACTING SENSOR, FOR SLIDE S10 Ø16÷30



Code	Description
W0950025390	Hall sensor DSL, 3 wires, NO 2.5 m
W0950029394	Hall sensor DSL, 3 wires, NO 300 mm M8
W0950022180	Hall sensor DSL, 2 wires, NO 2.5 m
W0950028184	Hall sensor DSL, 2 wires, NO 300 mm M8

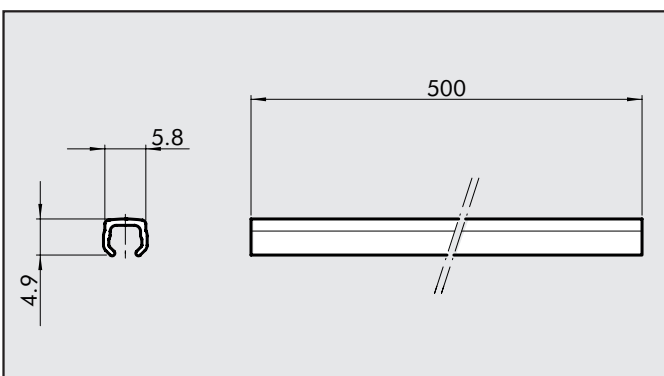
WIRING DIAGRAM



TECHNICAL FEATURES

	Reed	Hall effect
Type of contact	N.O.	N.O.
Switch	-	PNP
DC voltage range	V 3÷30	6÷30
AC voltage range	V 3÷30	-
Absorption	A 0.1	0.2
DC power	W 6	4
AC power	VA 6	-
Temperature range	°C -20°C to +85°C	
Activation time	s 0.5µs	0.8µs
De-activation time	s 0.1µs	0.3µs
Life	imp 10 million	10 ³ million
Contact resistance	Ω 0.1	-
Degree of protection	IP 65	-
Voltage drop	V 3	1
Number of wires	2	3

STRIP



Code	Description
W0950000160	SLOT STRIP 500 mm