

# TWIN CYLINDER SLIDE WITH FIXED PLATES SERIES S12

Two sliding systems are available:

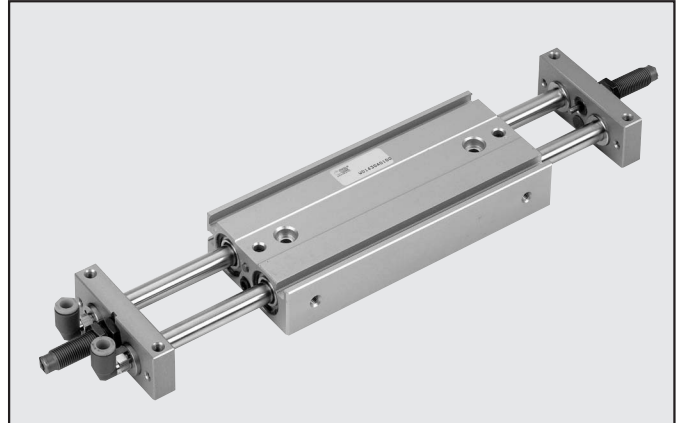
- on bushes
- on ball bearings

The structure is made up of two paired through-rod cylinders with a common anodized aluminium body with grooves for mounting the retractable sensor.

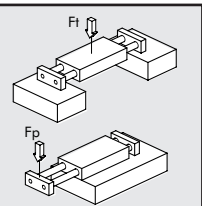
Five bores available: 2xØ12; 2xØ16; 2xØ20; 2xØ25; 2xØ30.

The rods are joined together by means of a plate on which the mechanical limit switches or hydraulic shock absorbers can be mounted.

The compressed air ports are at the end of the piston rods.



TECHNICAL FEATURES						
Fluid		20µm filtered air				
Pressure range		1.5 to 7 bar (0.15 to 0.7 MPa)				
Temperature range	°C	5 to +60				
Piston speed	mm/s	30 to 200 mm/s				
Versions		With sliding bushes / With ball bearing bushes / With stop screw / With hydraulic shock absorbers				
Bores	mm	12	16	20	25	30
Piston rod diameter	mm	6	8	10	12	16
Strokes	mm	25	25	25	25	25
		50	60	50	50	50
		75	75	75	75	75
		-	100	100	100	100
		-	-	125	125	125
		-	-	-	150	150
Weight = X + (Y · C)	kg					
		C = stroke				
Sliding version	X = 0.14	X = 0.25	X = 0.5	X = 0.7	X = 1.24	
	Y = 0.002	Y = 0.0035	Y = 0.045	Y = 0.007	Y = 0.01	
Ball bearing version	X = 0.25	X = 0.37	X = 0.78	X = 1.04	X = 1.98	
	Y = 0.002	Y = 0.0035	Y = 0.045	Y = 0.007	Y = 0.01	
Theoretical thrust	N	16.9xP	30xP	47xP	75xP	101xP
P = relative pressure in bar						
Loads with sliding version	N	Ft: 7÷3	Ft: 20÷4	Ft: 35÷4.5	Ft: 50÷5.4	Ft: 80÷12
		Fp: 4÷1.5	Fp: 4÷1.5	Fp: 12÷3	Fp: 15÷3.5	Fp: 20÷4.5
Loads with ball bearing version	N	Ft: 13÷5	Ft: 35÷6.5	Ft: 58÷7	Ft: 80÷8	Ft: 130÷18
		Fp: 6÷3	Fp: 11÷3	Fp: 18÷5	Fp: 23÷6	Fp: 50÷8

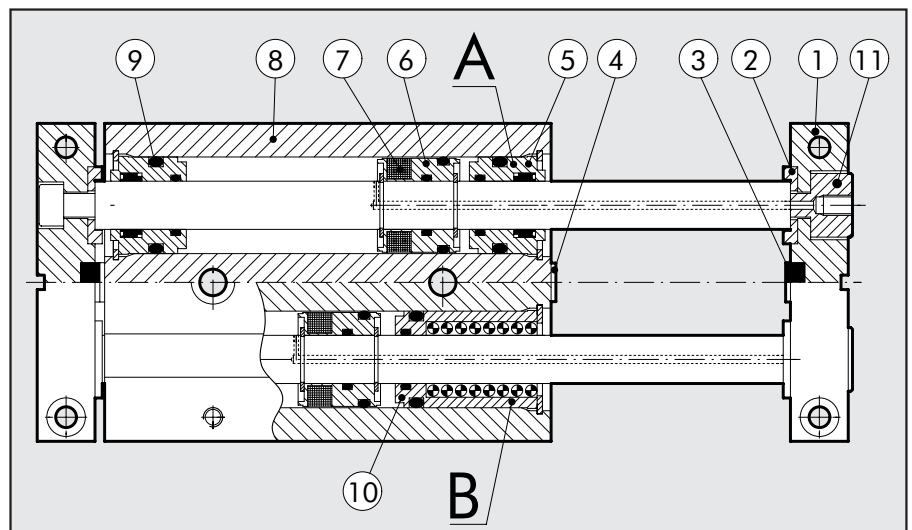


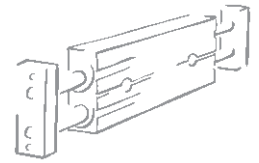
## COMPONENTS

- ① FLANGE: anodized aluminium
- ② WASHER: steel
- ③ BUFFER: rubber
- ④ ADJUSTABLE STRIKER PLATE: Zinc-plated steel
- ⑤ BASE: brass
- ⑥ PISTON: brass
- ⑦ MAGNET: Plastroferrite
- ⑧ CYLINDER BODY: anodized aluminium
- ⑨ STATIC O-RINGS: NBR
- ⑩ BUSH: ball bearing
- ⑪ VITE: con alimentazione pneumatica

A = Version with sliding bush

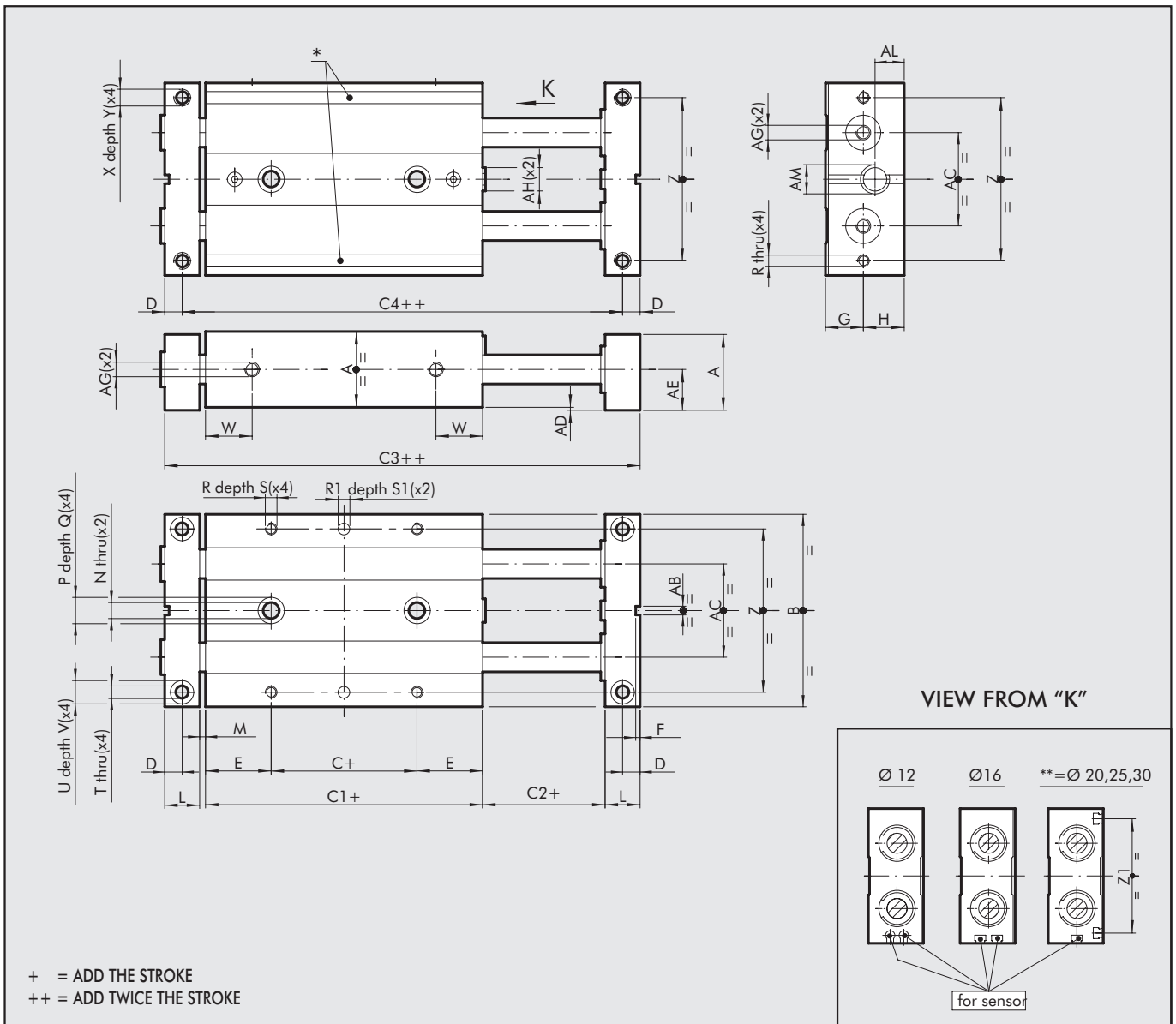
B = Version with ball bearing bush





## DIMENSIONS OF TWIN-CYLINDER SLIDE SERIES S12 - Ø 12-30

1



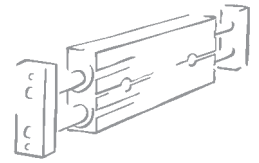
Codes	Ø	A	B	C	C1	C2	C3	C4	D	E	F	G	H	L	M	N	P	Q	R	R1 <sup>H7</sup>	S	S1	T
W1460122...*	12	18	46	5	45	2	65	57	4	20	1.5	9	10	8	2	4.3	8	4	M3	4	5	3	3.3
W1460162...*	16	22	56	10	50	2	74	64	5	20	1.5	11	12	10	2	4.3	8	4	M4	4	6	3	4.3
W1460202...*	20	26	66	10	55	2	83	71	6	22.5	1.5	13	14	12	2	5.5	9	5	M4	4	7	3	4.3
W1460252...*	25	32	78	10	60	2	92	78	7	25	2.5	16	17	14	2	6.5	10.5	6	M5	4	7	3	5.2
W1460302...*	30	36	98	10	70	2	106	90	8	30	2.5	18	19	16	2	8.5	14	8	M6	6	8	5	5.2

\*Enter required stroke

Ø	U	V	W	X	Y	Z	Z1	AB	AC	AD	AE	AF	AG	AH	AM	AL
12	6	3	14	M4	6	38	-	3	20	1	10	4	M5	M5	M8 x 1	7
16	8	4	15	M5	8	46	-	3	26	1	12	5	M5	M6	M10 x 1	8.5
20	8	4	16	M5	10	56	54	3	30	1	14	5	M5	M8	M10 x 1	9
25	9	5	19	M6	12	66	64	5	39	1	17	6	M5	M10	M12 x 1	10
30	9	5	21	M6	12	86	82	5	52	1	19	6	G 1/8	M12	M14 x 1.5	12

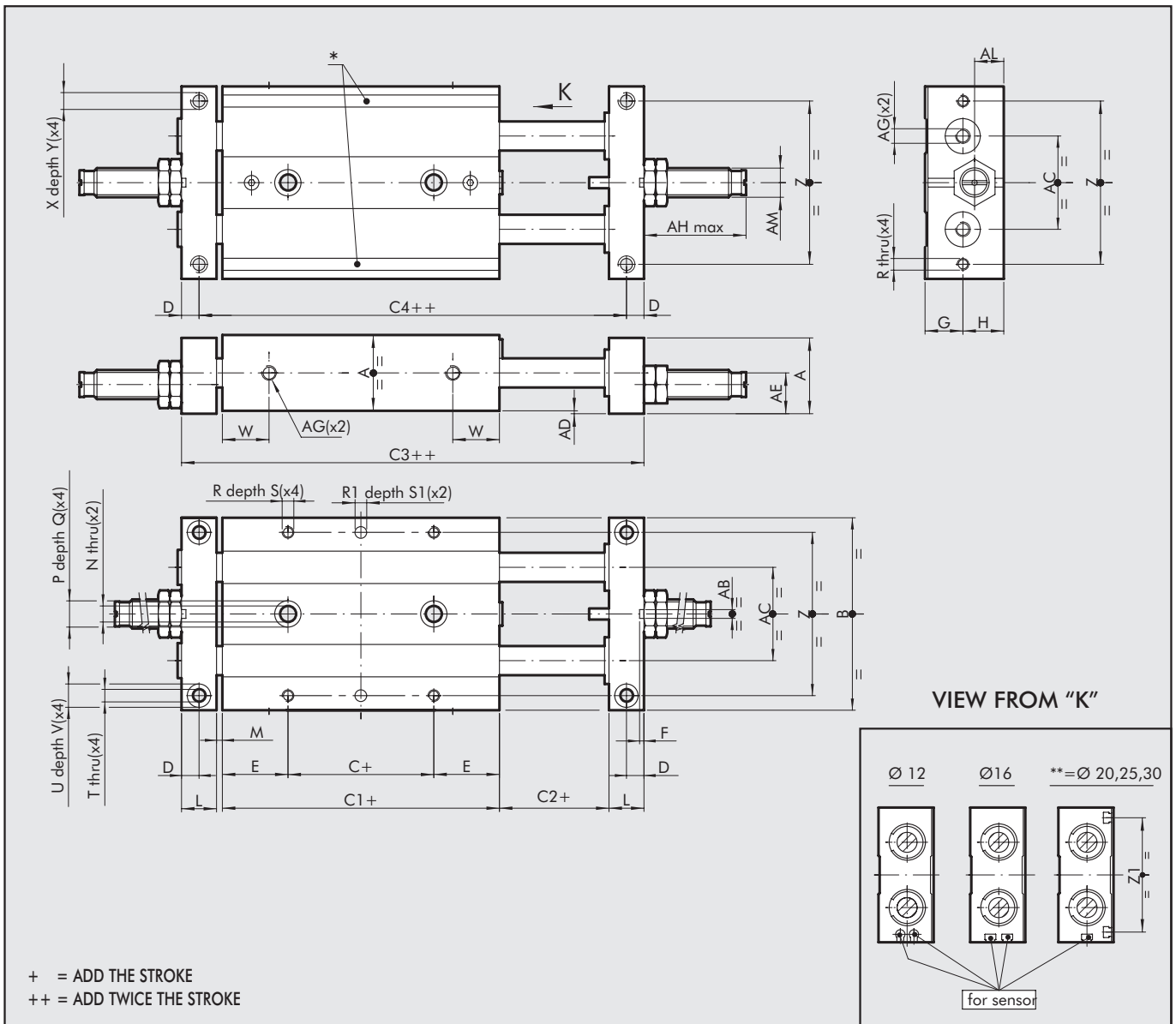
Strokes for bore 12 mm	25; 50; 75
Strokes for bore 16 mm	25; 50; 75; 100
Strokes for bore 20 mm	25; 50; 75; 100; 125
Strokes for bore 25 mm	25; 50; 75; 125; 150
Strokes for bore 30 mm	25; 50; 75; 125; 150





**DIMENSIONS OF TWIN-CYLINDER SLIDE WITH SHOCK ABSORBERS SERIES S12 - Ø 12-30**

**1**



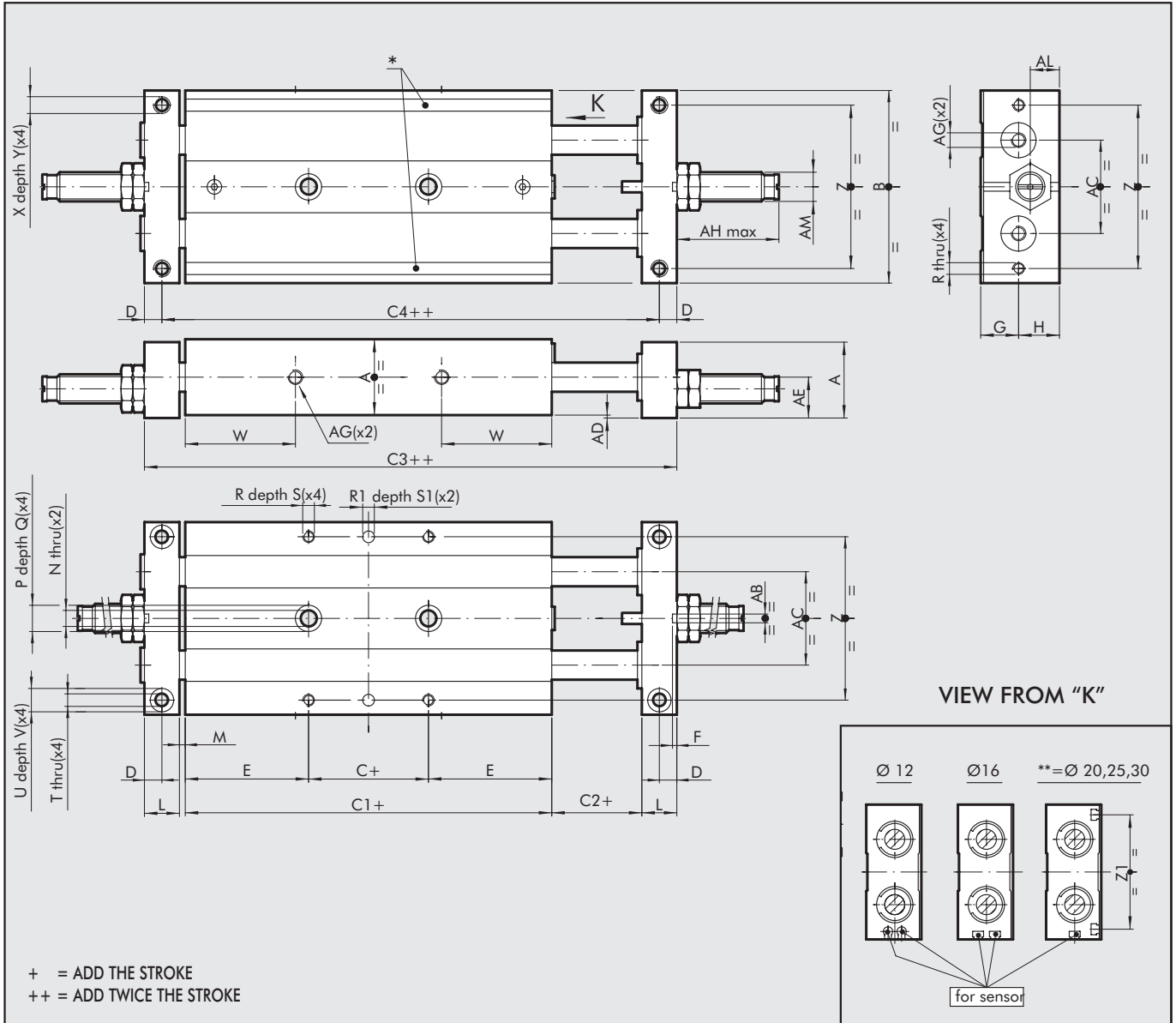
Codes	Ø	A	B	C	C1	C2	C3	C4	D	E	F	G	H	L	M	N	P	Q	R	R1 <sup>H7</sup>	S	S1	T
W1460124...*	12	18	46	5	45	2	65	57	4	20	1.5	9	10	8	2	4.3	8	4	M3	4	5	3	3.3
W1460164...*	16	22	56	10	50	2	74	64	5	20	1.5	11	12	10	2	4.3	8	4	M4	4	6	3	4.3
W1460204...*	20	26	66	10	55	2	83	71	6	22.5	1.5	13	14	12	2	5.5	9	5	M4	4	7	3	4.3
W1460254...*	25	32	78	10	60	2	92	78	7	25	2.5	16	17	14	2	6.5	10.5	6	M5	4	7	3	5.2
W1460304...*	30	36	98	10	70	2	106	90	8	30	2.5	18	19	16	2	8.5	14	8	M6	6	8	5	5.2

\*Enter required stroke

Ø	U	V	W	X	Y	Z	Z1	AB	AC	AD	AE	AF	AG	AH	AM	AL
12	6	3	14	M4	6	38	-	3	20	1	10	4	M5	30	M8 x 1	7
16	8	4	15	M5	8	46	-	3	26	1	12	5	M5	35	M10 x 1	8.5
20	8	4	16	M5	10	56	54	3	30	1	14	5	M5	35	M10 x 1	9
25	9	5	19	M6	12	66	64	5	39	1	17	6	M5	36	M12 x 1	10
30	9	5	21	M6	12	86	82	5	52	1	19	6	G 1/8	60	M14 x 1.5	12

- Strokes for bore 12 mm: 25; 50; 75
- Strokes for bore 16 mm: 25; 50; 75; 100
- Strokes for bore 20 mm: 25; 50; 75; 100; 125
- Strokes for bore 25 mm: 25; 50; 75; 125; 150
- Strokes for bore 30 mm: 25; 50; 75; 125; 150

**DIMENSIONS OF TWIN-CYLINDER SLIDE WITH SHOCK ABSORBERS SERIES S12 - Ø 12-30**

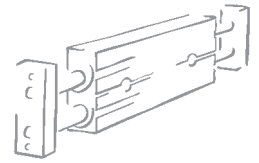


Codes	Ø	A	B	C	C1	C2	C3	C4	D	E	F	G	H	L	M	N	P	Q	R	R1 <sup>H7</sup>	S	S1	T
W1460125...*	12	18	46	5	71	2	91	83	4	33	1.5	9	10	8	2	4.3	8	4	M3	4	5	3	3.3
W1460165...*	16	22	56	10	85	2	109	99	5	37.5	1.5	11	12	10	2	4.3	8	4	M4	4	6	3	4.3
W1460205...*	20	26	66	10	99	2	127	115	6	44.5	1.5	13	14	12	2	5.5	9	5	M4	4	7	3	4.3
W1460255...*	25	32	78	10	105	2	137	123	7	47.5	2.5	16	17	14	2	6.5	10.5	6	M5	4	7	3	5.2
W1460305...*	30	36	98	10	128	2	164	148	8	59	2.5	18	19	16	2	8.5	14	8	M6	6	8	5	5.2

\*Enter required stroke

Ø	U	V	W	X	Y	Z	Z1	AB	AC	AD	AE	AF	AG	AH	AM	AL
12	6	3	28	M4	6	38	-	3	20	1	10	4	M5	30	M8 x 1	7
16	8	4	33	M5	8	46	-	3	26	1	12	5	M5	35	M10 x 1	8.5
20	8	4	40	M5	10	56	54	3	30	1	14	5	M5	35	M10 x 1	9
25	9	5	42	M6	6	66	64	5	39	1	17	6	M5	36	M12 x 1	10
30	9	5	50	M6	12	86	82	5	52	1	19	6	G 1/8	60	M14 x 1.5	12

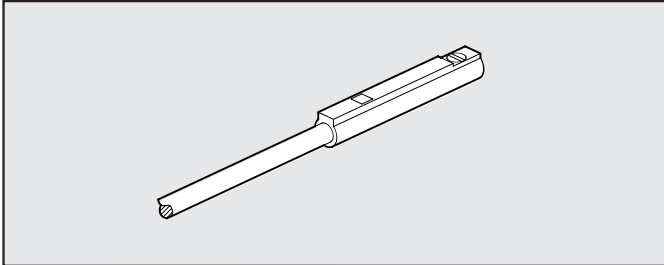
- Strokes for bore 12 mm: 25; 50; 75
- Strokes for bore 16 mm: 25; 50; 75; 100
- Strokes for bore 20 mm: 25; 50; 75; 100; 125
- Strokes for bore 25 mm: 25; 50; 75; 125; 150
- Strokes for bore 30 mm: 25; 50; 75; 125; 150



# ACCESSORIES

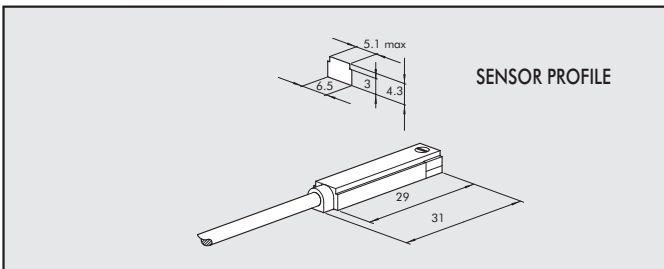
1

## MAGNETIC SENSOR Ø 4, FOR SLIDE S12 Ø12



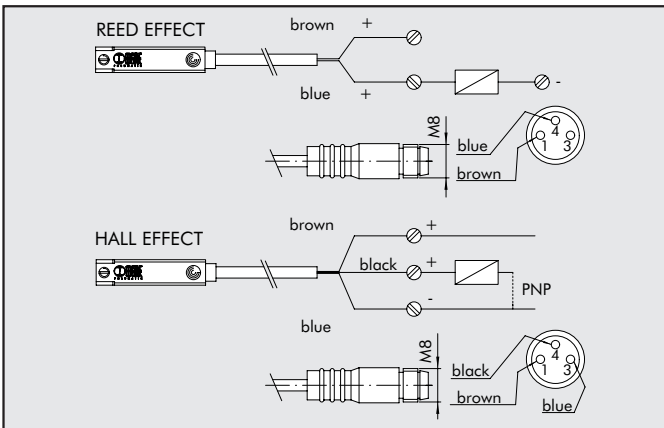
Code	Description
W0950044180	MAGNETIC SENSOR REED 2 WIRES 24VDC 1 m

## RETRACTING SENSOR, FOR SLIDE S12 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

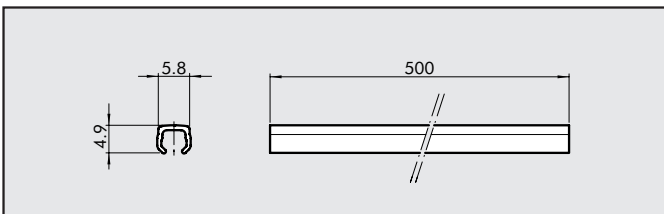
## WIRING DIAGRAM



## TECHNICAL FEATURES

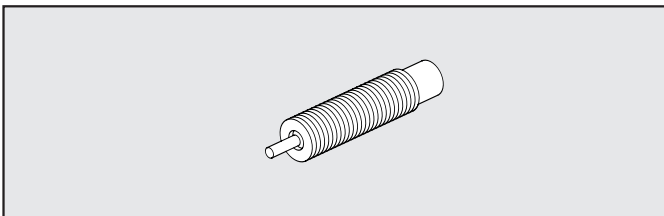
	Reed	Hall effect
Type of contact	N.O.	N.O.
Switch	-	PNP
DC voltage range	V 3÷30	6÷30
AC voltage range	V 3÷30	-
Absorption	A 0.1	0.2
DC power	W 6	4
AC power	VA 6	-
Temperature range	°C -20°C to +85°C	
Activation time	s 0.5µs	0.8µs
De-activation time	s 0.1µs	0.3µs
Life	imp 10 million	10 <sup>3</sup> million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

## SLOT STRIP



Code	Description
W0950000160	SLOT STRIP 500 mm

## SHOCK ABSORBERS



Code	Bore	Description
0950004001	ø12	Shock absorbers PM8 MC2 + nut M8x1
0950004002	ø16-20	Shock absorbers PM10 MF2 + nut M10x1
0950004003	ø25	Shock absorbers PR015 MF1 + nut M12x1
0950004004	ø30	Shock absorbers PR025 MC2 + nut M14x1.5