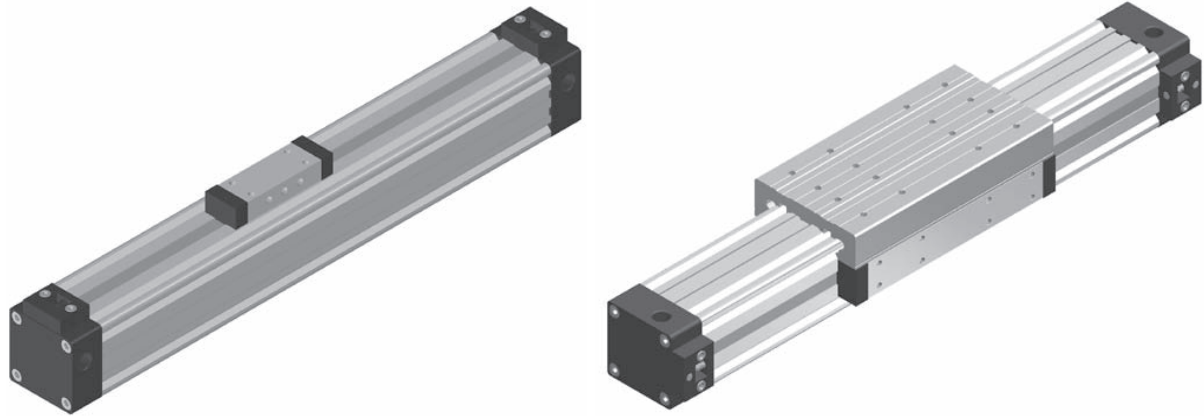


Rodless Pneumatic Cylinder Ø 18mm - 63mm

General Information



Technical Data

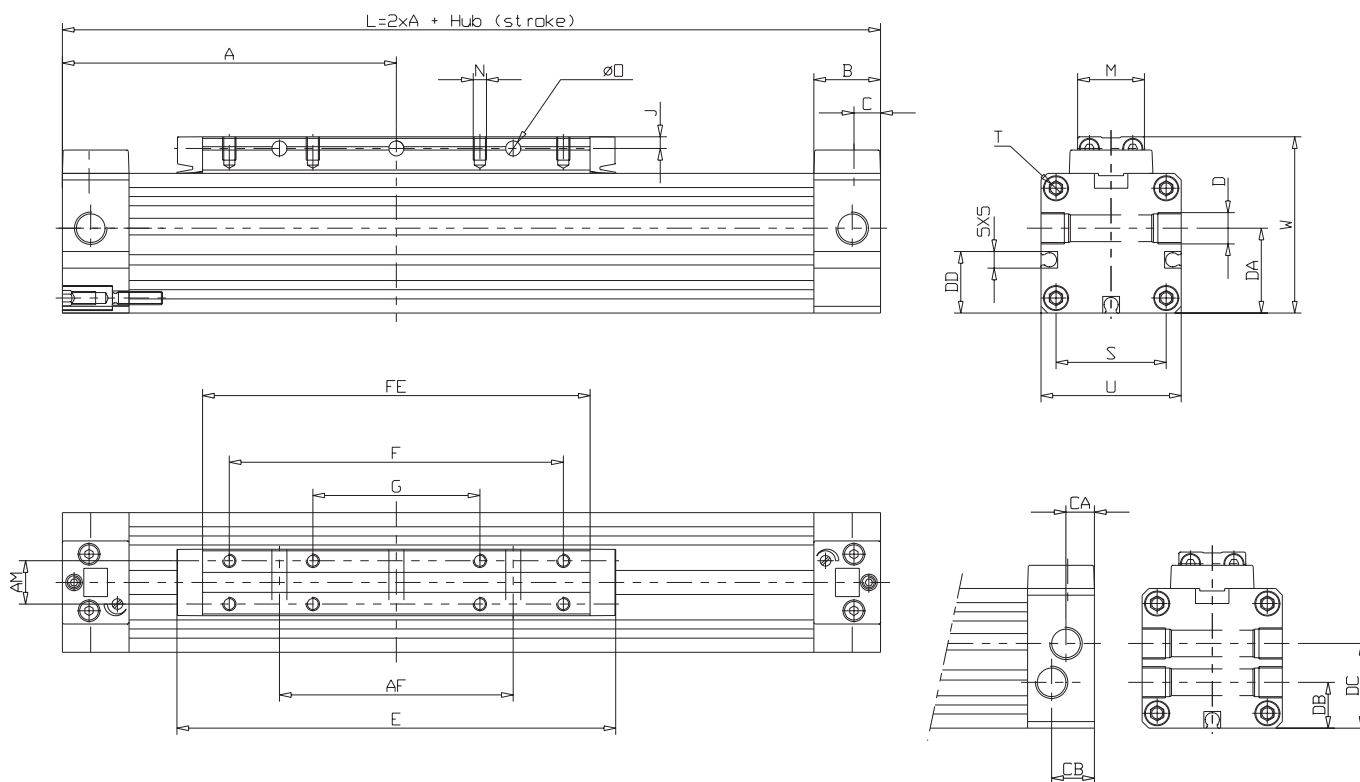
Piston diameters:	Ø 18, 25, 32, 40, 50, 63 (mm)						
Ports:	M7, G1/8, G1/4, G3/8						
Covers:	Aluminium						
Profiled tube:	Anodised aluminium profile						
Seals:	PUR						
Operating medium:	Filtered and slightly oiled or non-lubricated compressed air						
Pressure range:	2 - 8 bar						
Operating temperature:	PUR seals: -20 °C to +80 °C						
Cushioning length:	Ø	18	25	32	40	50	63
	mm	15	18	24	34	40	49
Force at 6 bar:	Ø	15	18	24	34	40	49
	N	140	270	440	680	1.060	1680
Max strokes:	1500 mm						

Impulse Automation Limited
United Kingdom
Company Registration 665193

Order Code

Order Code		Z	S	32	0500	
Series Number		Z				
Design						
	standard		S			
	short (reduced dimensions)		K			
	guiding standard		F			
	guiding short (reduced dimensions)		FK			
Piston diameter						
	Ø 18			18		
	Ø 25			25		
	Ø 32			32		
	Ø 40			40		
	Ø 50			50		
	Ø 63			63		
Stroke						
	mm				xxxx	
Stroke						
	feeding from both sides					-
	feeding from one side					A

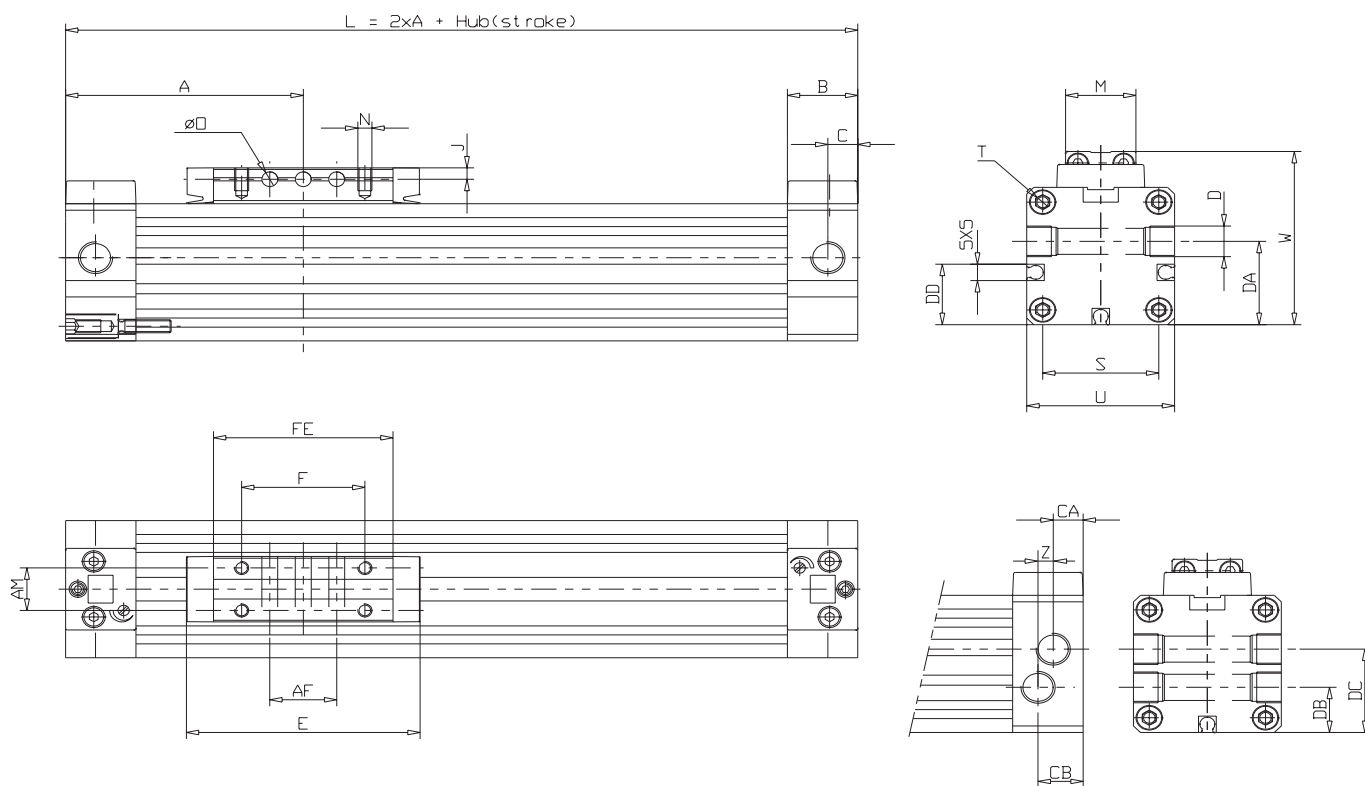
Rodless Cylinder ZS - Standard



Ø	A	AF	AM	B	C	CA	CB	D	DA	DB	DC	DD
Ø 18	80	50	10	16.5	6.5	-	-	M7x1 / 6	15.5	-	-	-
Ø 25	100	70	13	20	8.5	7	13	G1/8 x 8	25.5	14	28	18.5
Ø 32	120	100	16	20	8.5	7	13	G1/8 x 8	32	16	34.5	21
Ø 40	150	140	22	23	13	11	14.5	G1/4 x 12	37.5	18.5	41	29.5
Ø 50	180	180	29	23	13	12	14	G1/4 x 12	47.5	22.5	47.5	37
Ø 63	215	230	40	29	13	12.5	15.5	G3/8 x 12	59.5	24.5	59.5	44.5

Ø	E	F	FE	G	J	M	N	Ø O	S	T	U	W
Ø 18	103	75	90	-	3	15.5	M3 x 6	Ø 3.5	□ 23.5	M3 x 7	□ 30	39
Ø 25	131	100	116	50	3.5	20	M4 x 7	Ø 4.5	□ 33	M4 x 9	□ 42	53
Ø 32	171	140	156	70	4.5	25	M5 x 9	Ø 5.5	□ 41	M5 x 10	□ 52	65
Ø 40	220	180	220	90	5	33	M6 x 10	Ø 7	□ 51	M6 x 12	□ 63	79
Ø 50	280	220	260	110	6.5	42	M8 x 12.5	Ø 7	□ 63	M8 x 12	□ 78	96
Ø 63	333	280	313	140	8	54	M8 x 15	Ø 9	□ 78	M8 x 12	□ 93	113.5

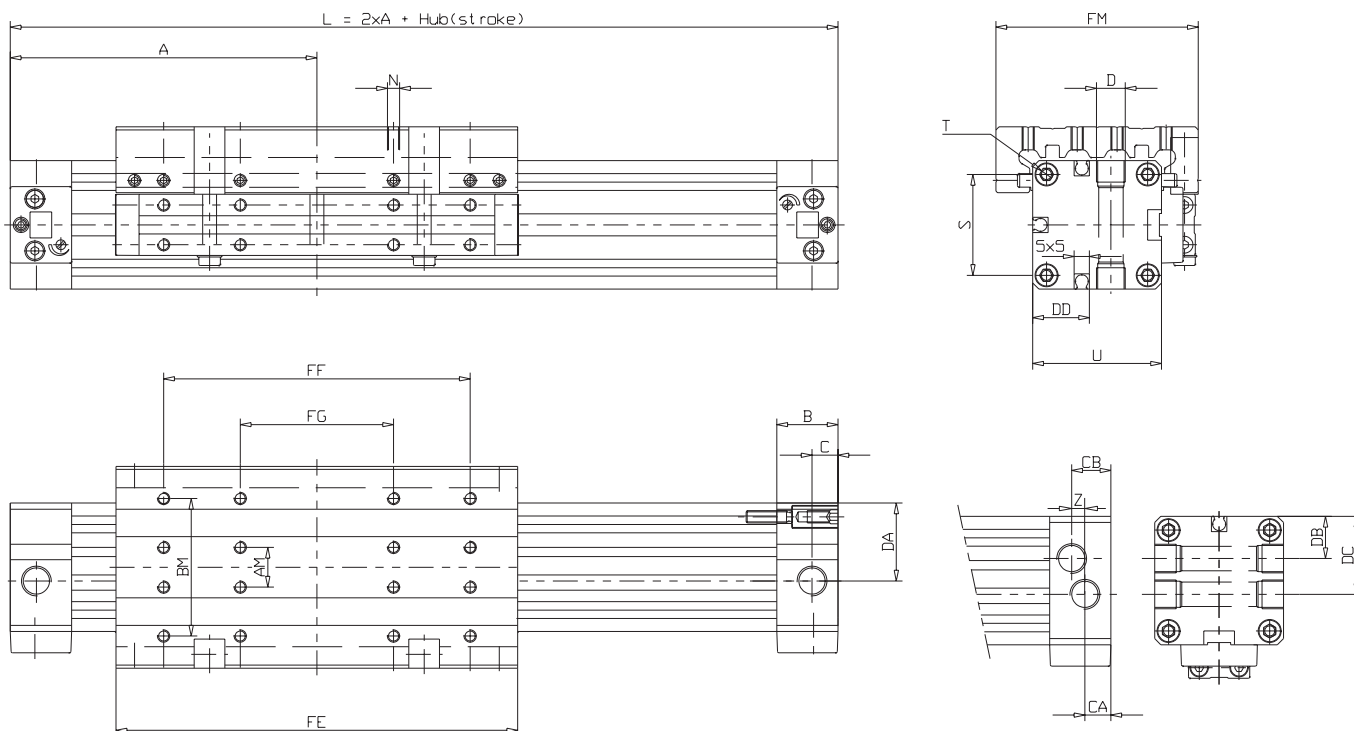
Rodless Cylinder ZK - Short cylinder



Ø	A	AF	AM	B	C	CA	CB	D	DA	DB	DC	DD
Ø 18	57.5	15	10	16.5	6.5	-	-	M7x1 / 6	17.5	-	-	-
Ø 25	67.5	19	13	20	8.5	7	13	G1/8 x 8	25.5	14	28	18.5
Ø 32	77.5	35	16	20	8.5	7	13	G1/8 x 8	32	17.5	34.5	21
Ø 40	95	50	22	24	13	9.5	14.5	G1/4 x 12	37.5	20	42	29.5
Ø 50	105	46	29	24	13	9.5	14.5	G1/4 x 12	47.5	26	52	37
Ø 63	125	70	40	30	13	11	18.5	G3/8 x 12.5	59.5	30	62	44.5

Ø	E	F	FE	J	M	N	Ø O	S	T	U	W	Z
Ø 18	58	30	90	3	15.5	M3 x 6	Ø 3.5	□ 23.5	M3 x 7	□ 30	39	-
Ø 25	66	35	116	3.5	20	M4 x 7	Ø 4.5	□ 33	M4 x 9	□ 42	53	6
Ø 32	86	55	156	4.5	25	M5 x 9	Ø 5.5	□ 41	M5 x 10	□ 52	65	6
Ø 40	110	70	220	5	33	M6 x 10	Ø 7	□ 51	M6 x 12	□ 63	79	5
Ø 50	130	70	260	6.5	42	M8 x 12.5	Ø 7	□ 63	M8 x 12	□ 78	96	5
Ø 63	153	100	313	8	54	M8 x 15	Ø 9	□ 78	M8 x 12	□ 93	113.5	7

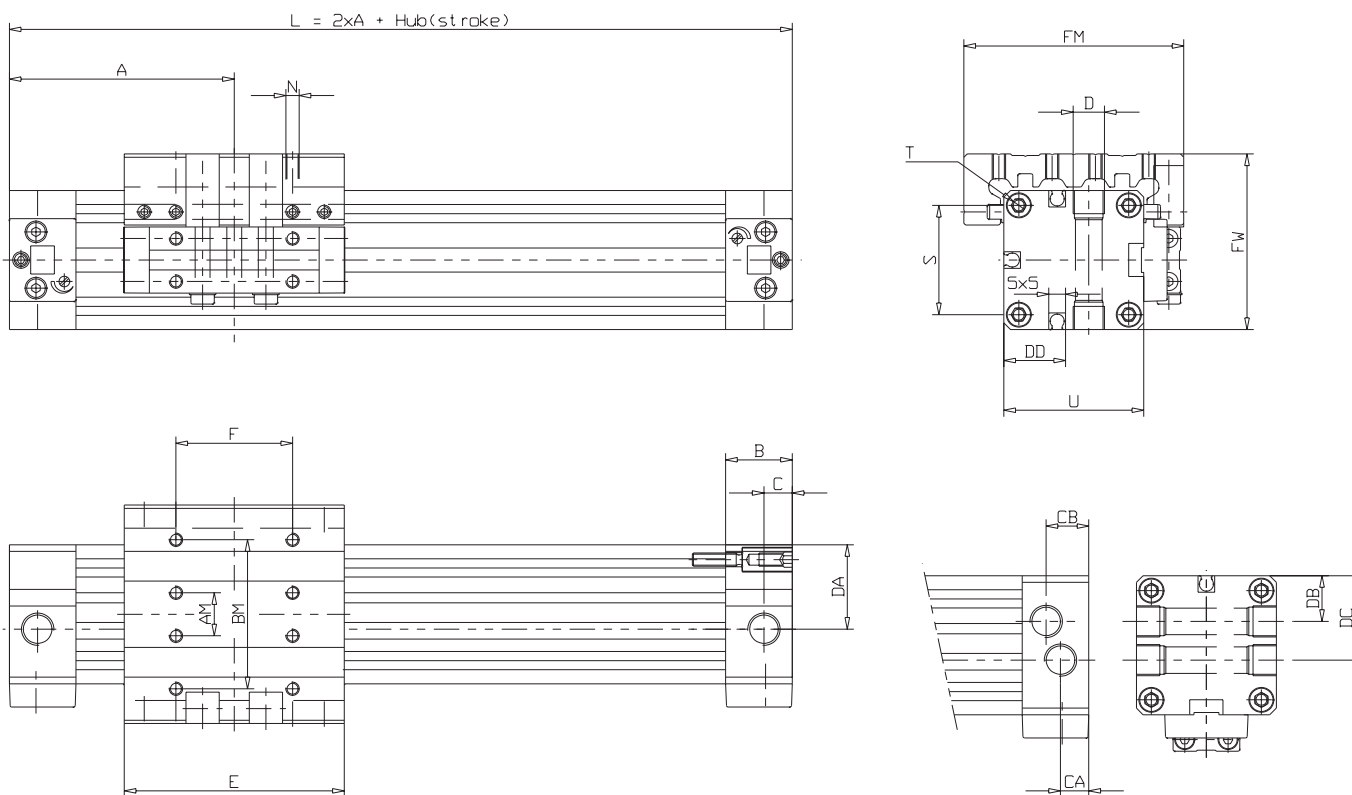
Rodless Cylinder ZF - Standard Guiding Cylinder



Ø	A	AM	B	BM	C	CA	CB	D	DA	DB	DC
Ø 18	80	10	16.5	35	6.5	-	-	M7x1 / 6	17.5	-	-
Ø 25	100	13	20	45	8.5	7	13	G1/8 x 8	25.5	14	28
Ø 32	120	16	20	55	8.5	7	13	G1/8 x 8	32	17.5	34.5
Ø 40	150	22	24	70	13	9.5	14.5	G1/4 x 12	37.5	20	42
Ø 50	180	29	24	85	13	9.5	14.5	G1/4 x 12	47.5	26	52
Ø 63	215	40	30	105	13	11	18.5	G3/8 x 12	59.5	30	62

Ø	DD	FE	FF	FG	FM	FW	N	S	T	U	Z
Ø 18	-	103	75	-	50	39	M4 x 7.5	□ 23.5	M3 x 7	□ 30	-
Ø 25	18.5	131	100	50	66	53	M4 x 8	□ 33	M4 x 9	□ 42	6
Ø 32	21	171	140	70	80	65	M5 x 10	□ 41	M5 x 10	□ 52	6
Ø 40	29.5	220	180	90	97	79	M6 x 12	□ 51	M6 x 12	□ 63	5
Ø 50	37	280	220	110	116	96	M8 x 16	□ 63	M8 x 12	□ 78	5
Ø 63	44.5	333	280	140	136	113.5	M8 x 16	□ 78	M8 x 12	□ 93	7

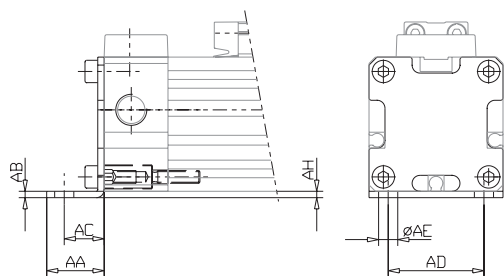
Rodless Cylinder ZFK - Short Guiding Cylinder



Ø	A	AM	B	BM	C	CA	CB	D	DA	DB
Ø 18	57.5	10	16.5	35	6.5	-	-	M7x1 / 6	17.5	-
Ø 25	67.5	13	20	45	8.5	7	13	G1/8 x 8	25.5	14
Ø 32	77.5	16	20	55	8.5	7	13	G1/8 x 8	32	17.5
Ø 40	95	22	24	70	13	9.5	14.5	G1/4 x 12	37.5	20
Ø 50	105	29	24	85	13	9.5	14.5	G1/4 x 12	47.5	26
Ø 63	125	40	30	105	13	11	18.5	G3/8 x 12.5	59.5	30

Ø	DC	DD	E	F	FM	FW	N	S	T	U
Ø 18	-	15	58	30	50	39	M4 x 7.5	□ 23.5	M3 x 7	□ 30
Ø 25	28	21	66	35	66	53	M4 x 8	□ 33	M4 x 9	□ 42
Ø 32	34.5	26	86	55	80	65	M5 x 10	□ 41	M5 x 10	□ 52
Ø 40	42	31.5	110	70	97	79	M6 x 12	□ 51	M6 x 12	□ 63
Ø 50	52	39	130	70	116	96	M8 x 16	□ 63	M8 x 12	□ 78
Ø 63	62	46.5	153	100	136	113.5	M8 x 16	□ 78	M8 x 12	□ 93

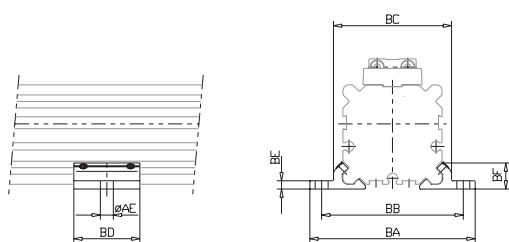
Mounting Bracket



Code	Ø	AA	AB	AC	AD	AE	AH
PK18	18	15	2	10	20	Ø 6	2
PK25	25	18	2	12.5	30	Ø 6	2
PK32	32	20	2.5	13.5	40	Ø 7	3
PK40	40	30	3	17.5	50	Ø 9	3.5
PK50	50	28	3	20	60	Ø 9	3
PK63	63	30	3	21	75	Ø 11	4.5

Note: The shipment includes 2 pieces.

Middle support

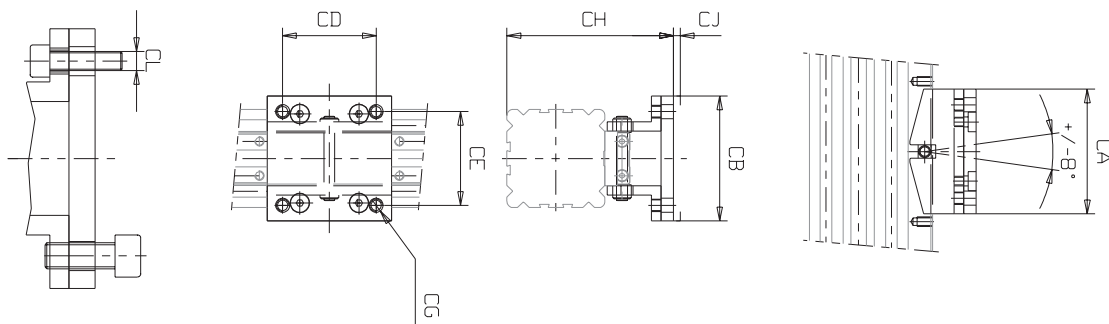


Code	Ø	AE	AH	BA	BB	BC	BD	BE	BF
MK18	18	Ø 6	2	56	46	36.5	23	2.5	8.25
MK25	25	Ø 6	2	70	60	50	28	3.5	11
MK32	32	Ø 7	3	85	73	61.5	33	4	13.8
MK40	40	Ø 9	3	105	90	75	38	4.5	16
MK50	50	Ø 9	3	122	106	91	43	5	19
MK63	63	Ø 11	4.5	144	125	107	48	6	22

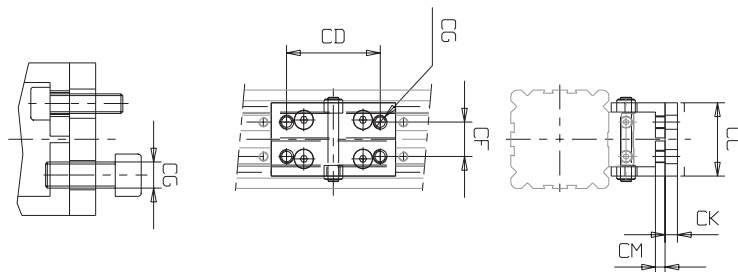
Note: The shipment includes 2 pieces.

Swinging bridge

Short



Wide



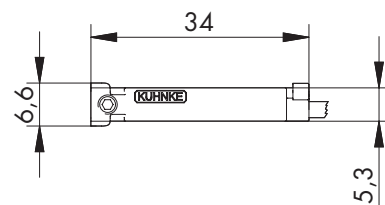
Short

Code	Ø	CA	CB	CD	CE	CG	CH	CJ	CL
FKC18	18	50	41.5	30	34	M5	54	2.5	M4
FKC25	25	60	50	40	38	M5	70	3	M4
FKC32	32	70	60	50	48	M6	86	3.5	M5
FKC40	40	80	80	60	60	M8	107	4.5	M6
FKC50	50	90	95	70	70	M8	123	4.5	M6
FKC63	63	100	120	80	90	M10	145.5	5	M8

Wide

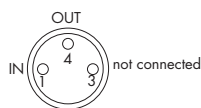
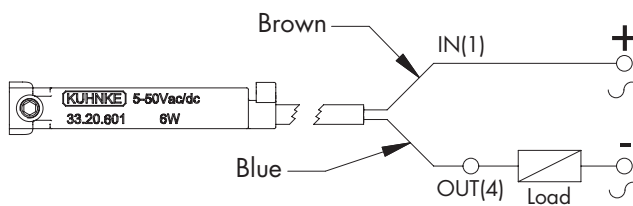
Code	Ø	CA	CC	CD	CF	CG	CK	CM
FKL18	18	50	25.5	30	9	M5	4	4
FKL25	25	60	30	40	14	M5	4	4
FKL32	32	70	37	50	16	M6	6	6
FKL40	40	80	47	60	22	M8	8	8
FKL50	50	90	56	70	30	M8	8	8
FKL63	63	100	73	80	40	M10	8	8

Position Transmitter



Position Transmitter REED (2 pole)

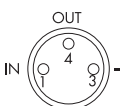
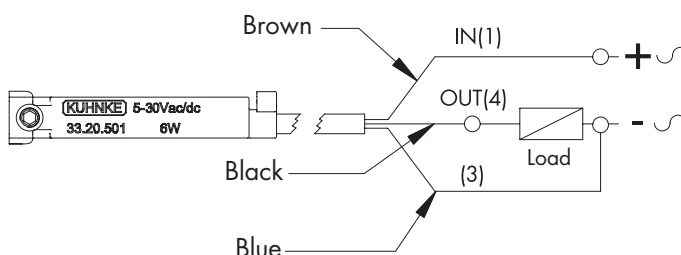
Contact type: N.O.
Cable: 2 x 0.14 mm²
Switching capacity: max 6 W
Switching voltage: 5-50 V AC/DC
Switching current: max 200 mA
Voltage drop: 3 V
Switching time: 0.6 ms
Switching rate: max 400 Hz
Service life: 10⁷ operations, depending on the load
Ambient temperature range: -5°C to +75°C
Protection class: IP67
Status indicator: LED
Housing material: plastic



Code	Description
33.20.601	with cable L = 2000 mm
33.20.681	socket M8, cable L = 300 mm

Position Transmitter REED (3 pole)

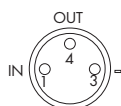
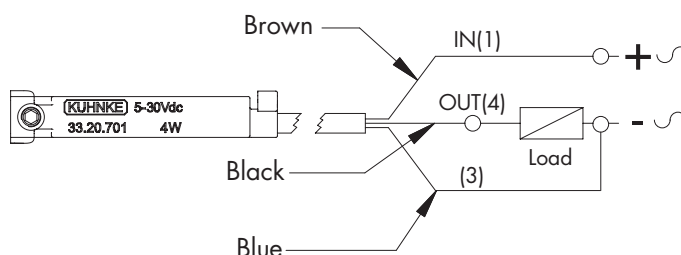
Contact type: N.O.
Cable: 3 x 0.14 mm²
Switching capacity: max 6 W
Switching voltage: 5-30 V AC/DC
Switching current: max 500 mA
Voltage drop: 0.1 V
Switching time: 0.6 ms
Switching rate: max 400 Hz
Service life: 10⁷ operations, depending on the load
Ambient temperature range: -5°C to +75°C
Protection class: IP67
Status indicator: LED
Housing material: plastic



Code	Description
33.20.501	with cable L = 2000 mm
33.20.581	socket M8, cable L = 300 mm

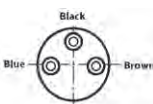
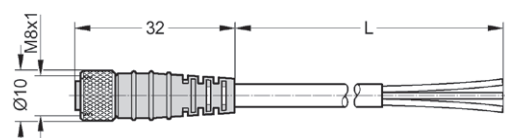
Electronic Position Transmitter

Contact Type: PNP (N.O.)
Cable: 3 x 0.14 mm²
Switching capacity: max 4 W
Switching voltage: 5-30 V DC
Switching current: max 200 mA
Voltage drop: 0.7 V
Switching time: 0.8 µs
Switching rate: max 1 kHz
Service life: 10¹¹ operations, depending on the load
Ambient temperature range: -5°C to +75°C
Protection class: IP67
Status indicator: LED
Housing material: plastic



Code	Description
33.20.701	with cable L = 2000 mm
33.20.781	socket M8, cable L = 300 mm

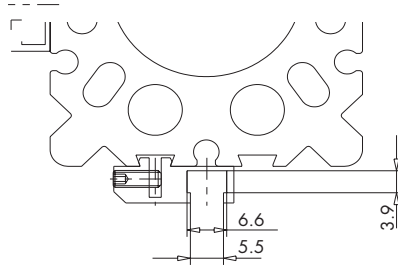
M8 Connectors (female straight)



Code	Description
PL08B3.V250.30	cable L = 3000 mm
PL08B3.V250.50	cable L = 5000 mm

Fastening Clamps

Code
KFS01



Position Transmitter Assembly



1. Insert the transmitter into the groove from the top.



2. Turn the transmitter 90° clockwise.



3. Lay the transmitter on the groove making sure that the locking tooth is well fixed.



4. Tighten the screw (max torque 0.3 Nm).

Position Transmitter Disassembly



1. Loosen the screw.



2. Unlock the tooth using a screwdriver.



3. Lift the transmitter from the groove.



4. Turn the transmitter 90° anti-clockwise and lift out.