**ZRL1C series**

Classic design with high carriage

**ZRL1F series**

Compact design with low carriage

**ZRL1S series**

With integrated sliding guide

Other designs with different guides or as duo assembly on request.

Features:

- Equal forces in both directions
- Direct force output, protected against rotation
- Particularly space-saving - installation length halved compared to cylinders with piston rod
- Extreme stroke lengths up to 5700 mm
- End caps with three air connections and adjustable cushioning
- High acceleration and velocity
- High degree of design freedom

Application examples:

- For linear and direct horizontal, vertical and diagonal load movements
- Can be used as a self-supporting structural or pure load-bearing machine element in single, multiple or parallel axis arrangement
- Suitable for conveyor systems, packaging and filling systems, handling systems, workpiece transport systems, door closing systems, etc.

Delivery times, freight and packaging costs:

- After receipt of order, the cylinders will be manufactured individually for you.
- Usually, shipment takes place within 5 working days, depending on the number of pieces.
- Freight and packaging costs are charged individually and regardless of the value of the goods.

Functional description:

The entire tube is slotted throughout its full length. The force is transmitted through the load friction, which is attached to the piston axle. The piston axis is designed in such a way that a bridge guided through the tube slot connects the inner part of the piston axis to the outer part.

Therefore the force transmission runs as follows:

Air pressure --> Piston area --> piston axle (inner part) --> piston axle (outer part) --> load friction --> load.

The sealing of the cylinder slot is guaranteed by a precision ground inner steel band. The inner band is kept in position by magnet stripes on both sides of the slot.

In addition, a second steel band on the outside of the slot serves to cover the dust. During piston movement as well as during stillstand of it both steelbands are lifted right after the piston seal and led through the piston axle by means of a separate own guiding channel. Both steel bands are lifted off the slot behind the piston seal during piston travel and at standstill, and each is guided through the piston axis by its own guide channel. In front of and behind the piston, the bands seal the cylinder slot again.

Rodless cylinders ZRL1C series

Classic design with high carriage

PLUS ||



Description:

ZRL1C series actuators include piston diameters of 16, 25, 32 and 40 mm with stroke lengths up to 5700 mm.

Suitable for filtered (50 µm) and unlubricated or lubricated compressed air.

Please ensure continuous oiling when using lubricated compressed air.

Please refer to our type code for the available variants and their corresponding type designations for your individual inquiry.

Other special designs are also available on request.

Suitable for use in EX areas – ATEX



Technical data:

Piston Ø [mm]	16	25	32	40
Stroke length [mm]	100 ... 4400	100 ... 5700		
Acting type	Double acting			
Cushioning	Adjustable, three stage			
Fluid	Filtered air (max. 50 µm), without or with lubrication. If lubrication is used, it must be continuous.			
Working pressure [bar]	0,5 ... 8,0			
Temperature range [°C]	-10 ... +80			
Number of pneumatic ports	3			
Connecting thread	M5	G 1/8	G 1 /4	
Mounting	Free			
Forces and moments	See forces and moments			
Support forces	See deflection diagram			

Material:

Barrel	High-strength anodized aluminium
End caps	High-strength anodized aluminium
Piston axle	High-strength anodized aluminium
Seals	Oil-proof synthetic material (NBR/FPM)*
Sealing bands	Stainless steel
Piston caps	Wear-proof synthetic material
Sliding parts	Wear-proof synthetic material

*NBR seals recommended for piston speeds ≤ 1 m/s. FPM seals recommended for speeds > 1 m/s.

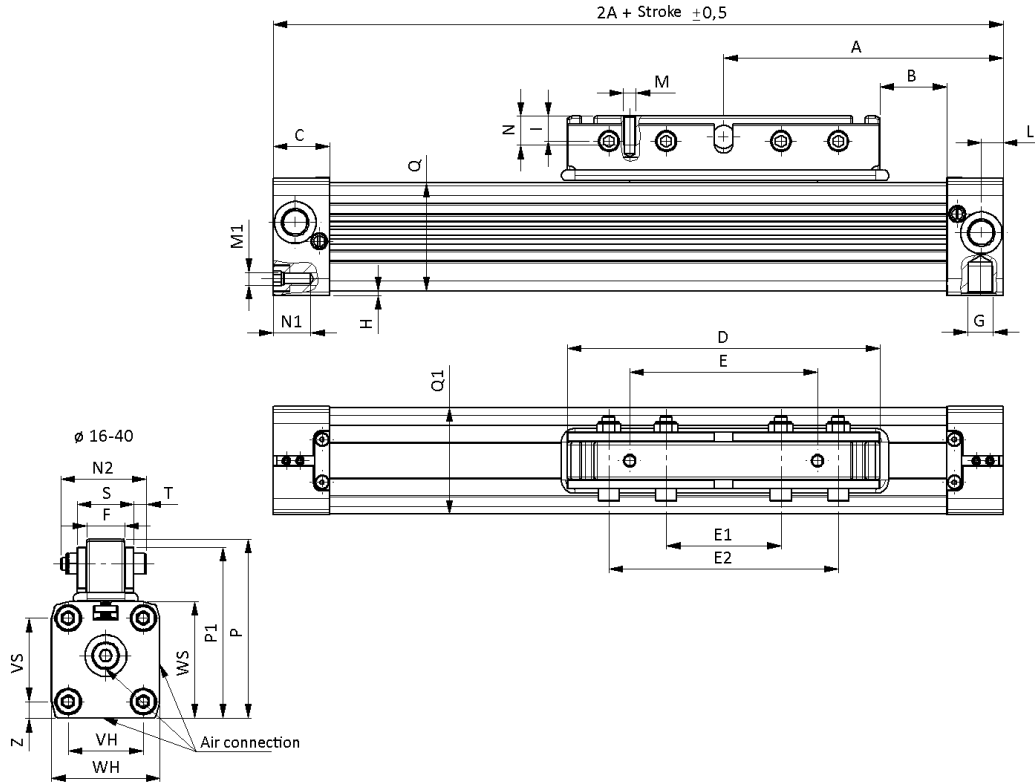
Structure of the type code:

Example:

ZRL1C.250250.KBWF.LL.N.EX

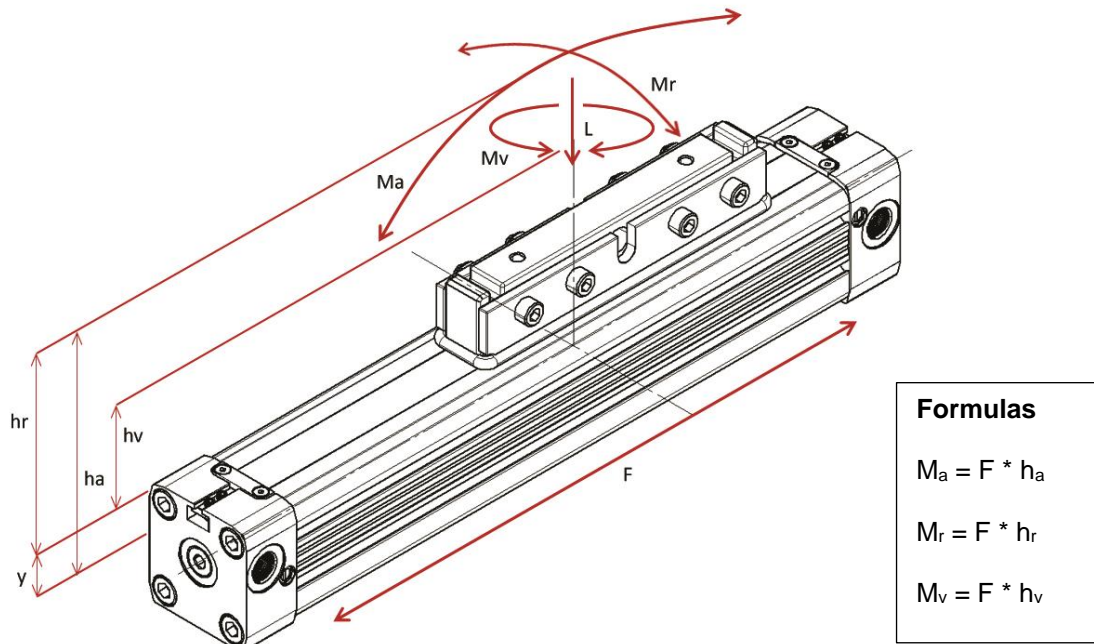
Piston Ø [mm]	Stroke min.–max. [mm]	Variant	Lubrication	Magnet	ATEX		
16	0100 ... 4400 (Ø 16)	Standard: - Rigid load connection - Screws 10.9 zinc plated - 3 air connections - NBR seals For speeds ≤1 m/s. SX Same as standard, except: ⊕ Stainless steel screws F Same as standard, except: ⊕ FPM seals For speeds >1 m/s, at which the seals are exposed to increased temperature development. SXF Same as standard, except: ⊕ Stainless steel screws ⊕ FPM seals For speeds >1 m/s. KBW Same as standard, except: ⊕ Flexible load connection KBWF Same as standard, except: ⊕ Flexible load connection ⊕ FPM seals For speeds >1 m/s.	Standard lubrication	Standard: with magnet	Standard: no		
25	0100 ... 5700 (Ø 25, 32, 40)		LL Slow speed lubrication	Recommended for speeds ≤ 0,1m/s (NBR seals)/ ≤ 0,2m/s (FPM seals).	N without magnet	EX yes	
32							
40							

- ➔ For each position in the type code, only one option can be selected by default.
- Piston Ø and stroke must always be defined as the minimum specification, e. g. ZRL1C.320100.
- ➔ Standard options are not explicitly defined, meaning the position in the type code remains empty, e. g. ZRL1C.320100.LL.

Dimensions:


\varnothing	A	B	C	D	E	E ₁	F	G	I	L	M	M ₁	N ₁	N ₂	P
16	65	12	15	76	48	32	10	M5	6	5.5	M4	M3	7	27	43.5
25	100	17	23	120	80	50	15	1/8	13	8.5	M5	M5	10	35	66.0
32	125	23	27	150	90	55	18	1/4	12	10.5	M6	M6	14	41	86.0
40	150	45	30	150	90	55	18	1/4	12	15.0	M6	M6	17	41	97.0

\varnothing	P ₁	Q _x Q ₁	E ₂	H	S	T	VH	WH	VS	WS	Z
16	37.5	24.5x25	64	1.0	18	4	18	27	18	27	4.5
25	53.0	36x36	100	2.0	23	5	27	40	27	40	6.5
32	74.0	52x51	110	2.0	27	6	36	52	40	56	8.0
40	85.0	58.5x59	110	7.0	28	6	54	72	54	69	9.0



Forces and moments:

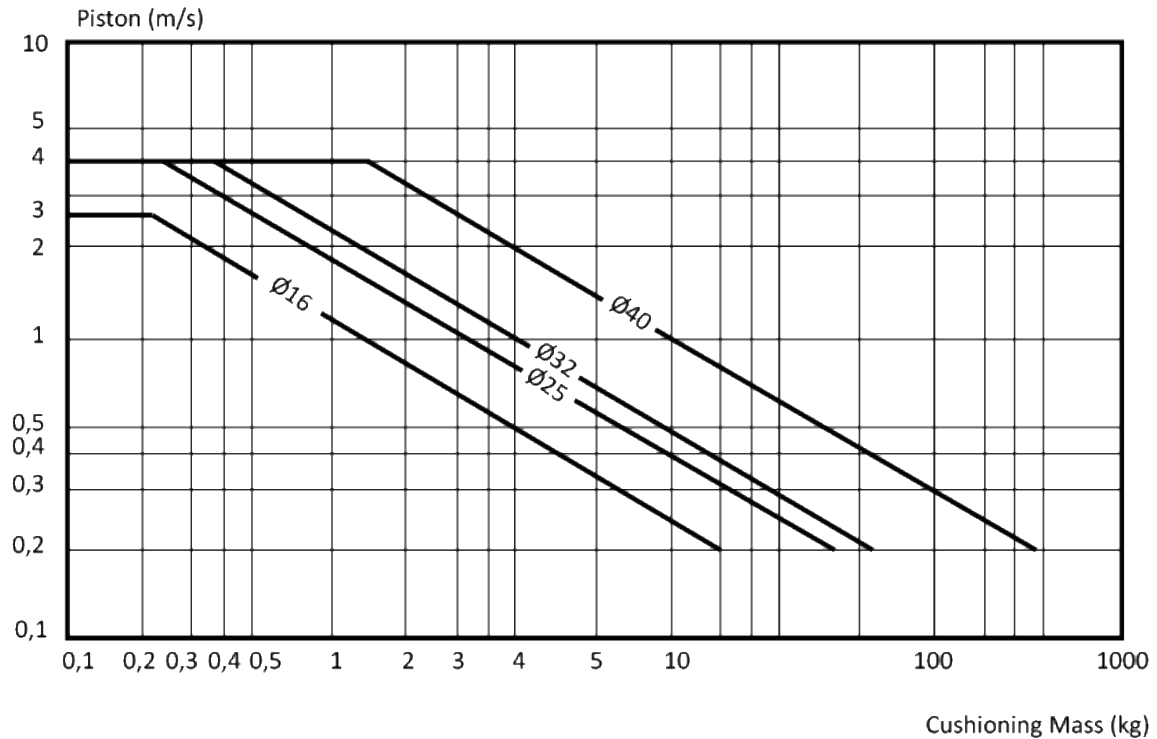
	ZRL1C series			
Piston Ø [mm]	16	25	32	40
Center distance Y [mm]	9	14	18	22
Effective force F (6 bar) [N]	110	250	420	640
Cushioning S [mm]	15	21	26	32
Max. load L [N]	120	300	450	750
Max. bending moment axial M_a [Nm]	4	15	30	60
Max. bending moment radial M_r [Nm]	0.3	1	2	4
Max. torque M_v [Nm]	0.5	3	4.5	8

The figures above are max. values based on light shock free duty and speed of $v \leq 0.2$ m/sec. (ZRL1C series).
Max. pressure 6 bar.

An exceeding of the values in dynamic operations, even for short moments, has to be avoided.

Attention:

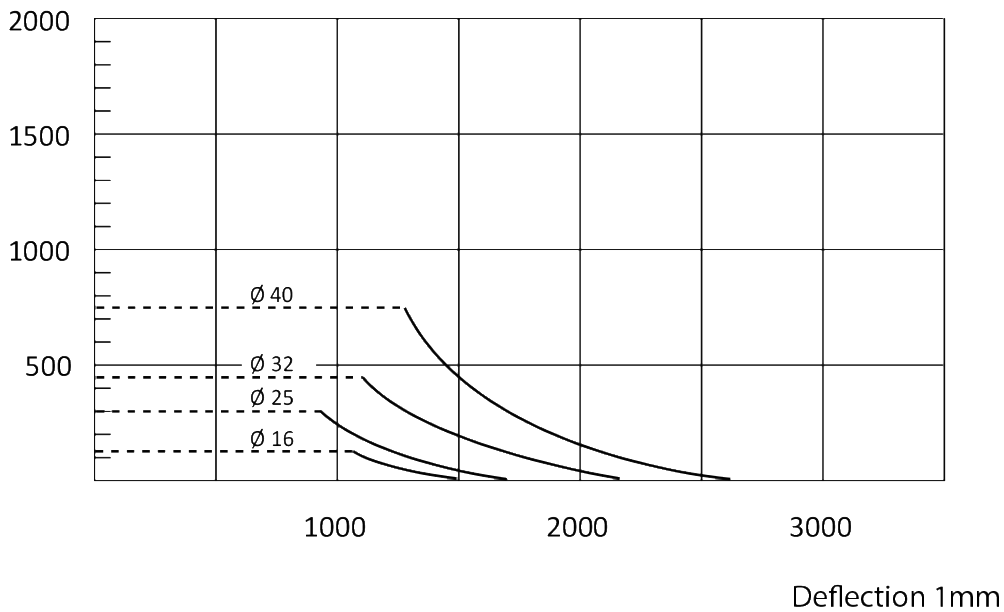
Resulting forces could lead to extreme exceedings of the values. In case of undefinable situations the above max. values have to be underrun by 10 to 20 %.

Cushioning diagram:

Pay attention to the following points:

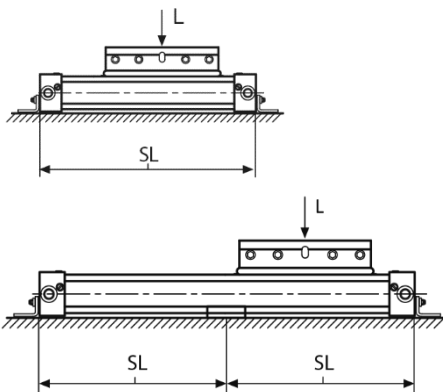
- If the limits above are exceeded additional shock absorbers are necessary.
- For piston speeds of > 1 m/s FPM seals are recommended.
- For piston speeds ≤ 0.1 m/s (NBR) / ≤ 0.2 m/s (FPM) we recommend slow speed lubrication (variant LL).
- Maximum duration life will be achieved when piston speeds do not exceed 1 m/s.

Deflection diagram:

Load L (N)



max. distance (SL) in mm - without mid section support / mid section mounting

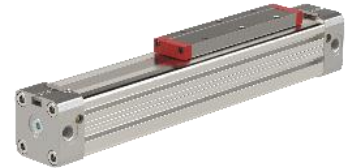

Diagram information:

- Calculated deflections without support of 0.5 to 1 mm allow exceeding of supporting distance.
- Calculated deflections without support of 1 to max. 1.5 mm require reduction of the supporting distance.

Rodless cylinders ZRL1F series

Compact design with low carriage

PLUS ||



Description:

ZRL1F series actuators feature a particularly flat carriage design and include piston diameters of 16, 25, 32, 40, 50 and 63 mm with stroke lengths up to 5700 mm.

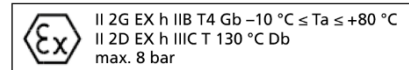
Suitable for filtered (50 µm) and unlubricated or lubricated compressed air. Please ensure continuous oiling when using lubricated compressed air.

Please refer to our type code for the available variants and their corresponding type designations for your individual inquiry.

Other special designs are also available on request.

An articulated carrier is available as a separate accessory.

Suitable for use in EX areas – ATEX



Technical data:

Piston Ø [mm]	16	25	32	40	50	63
Stroke length [mm]	100 ... 4400	100 ... 5700				
Acting type	Double acting					
Cushioning	Adjustable, three stage					
Fluid	Filtered air (max. 50 µm), without or with lubrication. If lubrication is used, it must be continuous.					
Working pressure [bar]	0,5 ... 8,0					
Temperature range [°C]	-10 ... +80					
Number of pneumatic ports	3					
Connecting thread	M5	G 1/8	G 1/4			G 3/8
Mounting	Free					
Forces and moments	See forces and moments					
Support forces	See deflection diagram					

Material:

Barrel	High-strength anodized aluminium
End caps	High-strength anodized aluminium
Piston axle	High-strength anodized aluminium
Seals	Oil-proof synthetic material (NBR/FPM)*
Sealing bands	Stainless steel
Piston caps	Wear-proof synthetic material
Sliding parts	Wear-proof synthetic material

*NBR seals recommended for piston speeds ≤ 1 m/s. FPM seals recommended for speeds > 1 m/s.

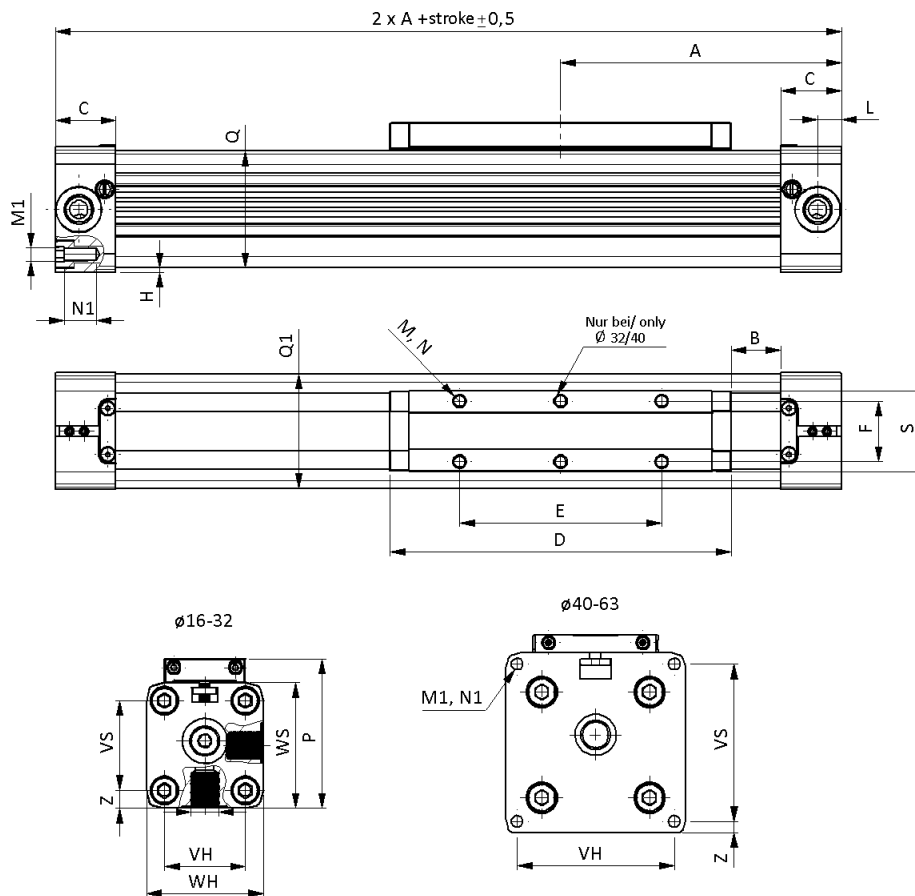
Structure of the type code:

Example:

ZRL1F.250250.KBWF.LL.N.EX

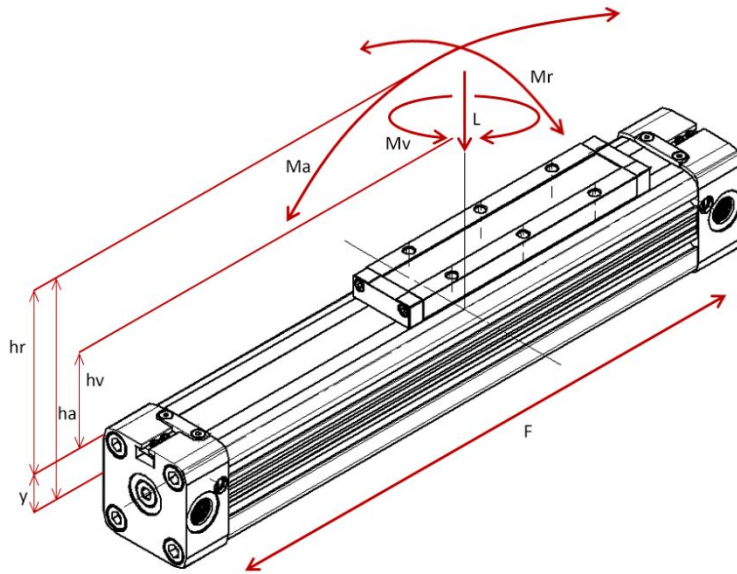
Piston Ø [mm]	Stroke min.–max. [mm]	Variant	Lubrication	Magnet	ATEX	
16	0100 ... 4400 (Ø 16)	Standard: - Rigid load connection - Screws 10.9 zinc plated - 3 air connections - NBR seals For speeds ≤1 m/s.	Standard lubrication	Standard: with magnet	Standard: no	
25	0100 ... 5700 (Ø 25, 32, 40, 50, 63)		LL Slow speed lubrication	N without magnet	EX yes	
32			Recommended for speeds ≤ 0,1 m/s (NBR seals)/ ≤ 0,2 m/s (FPM seals).			
40						SX Same as standard, except: ⊕ Stainless steel screws
50						F Same as standard, except: ⊕ FPM seals For speeds >1 m/s, at which the seals are exposed to increased temperature development.
63						SXF Same as standard, except: ⊕ Stainless steel screws ⊕ FPM seals For speeds >1 m/s.
		LE Same as standard, except: ⊕ Air supply from one side (only for Ø 32, 40, 50, 63)				
		KBW Same as standard, except: ⊕ Flexible load connection				
		KBWF Same as standard, except: ⊕ Flexible load connection ⊕ FPM seals For speeds >1 m/s.				

- For each position in the type code, only one option can be selected by default.
Piston Ø and stroke must always be defined as the minimum specification, e. g. ZRL1F.320100.
- Standard options are not explicitly defined, meaning the position in the type code remains empty, e. g. ZRL1F.320100.LL.

Dimensions:


ϕ	A	B	C	D	E	F	G	H	L	M	M1	N	N1	P
16	65	15.5	15	69	36	16.5	M5	1.0	5.5	M4	M3	7	7	36.5
25	100	21.0	23	111	65	25.0	G 1/8	2.0	8.5	M5	M5	10	12	52.5
32	125	22.0	27	152	90	27.0	G 1/4	2.0	10.5	M6	M6	7	14	66.5
40	150	44.0	30	152	90	27.0	G 1/4	6.75	15.0	M6	M6	10	17	80.0
50	175	42.0	33	200	110	27.0	G 1/4	0.5	11.7	M6	M6	6	18	88.0
63	215	47.5	50	235	155	36.0	G 3/8	1.5	25.0	M8	M8	15	18	123.0

ϕ	Q, Q_1	S	VS	VH	WS	WH	Z
16	24.5x25	22.0	18	18	27	27	4.5
25	36x36	33.0	27	27	40	40	6.5
32	52x51	36.0	40	36	56	52	8.0
40	58.5x59	36.4	54	54	69	72	9.0
50	77x78	56.0	70	70	80	80	4.0
63	102x102	50.0	78	78	106	106	14.5


Formulas

$$M_a = F \cdot h_a$$

$$M_r = F \cdot h_r$$

$$M_v = F \cdot h_v$$

Forces and moments:

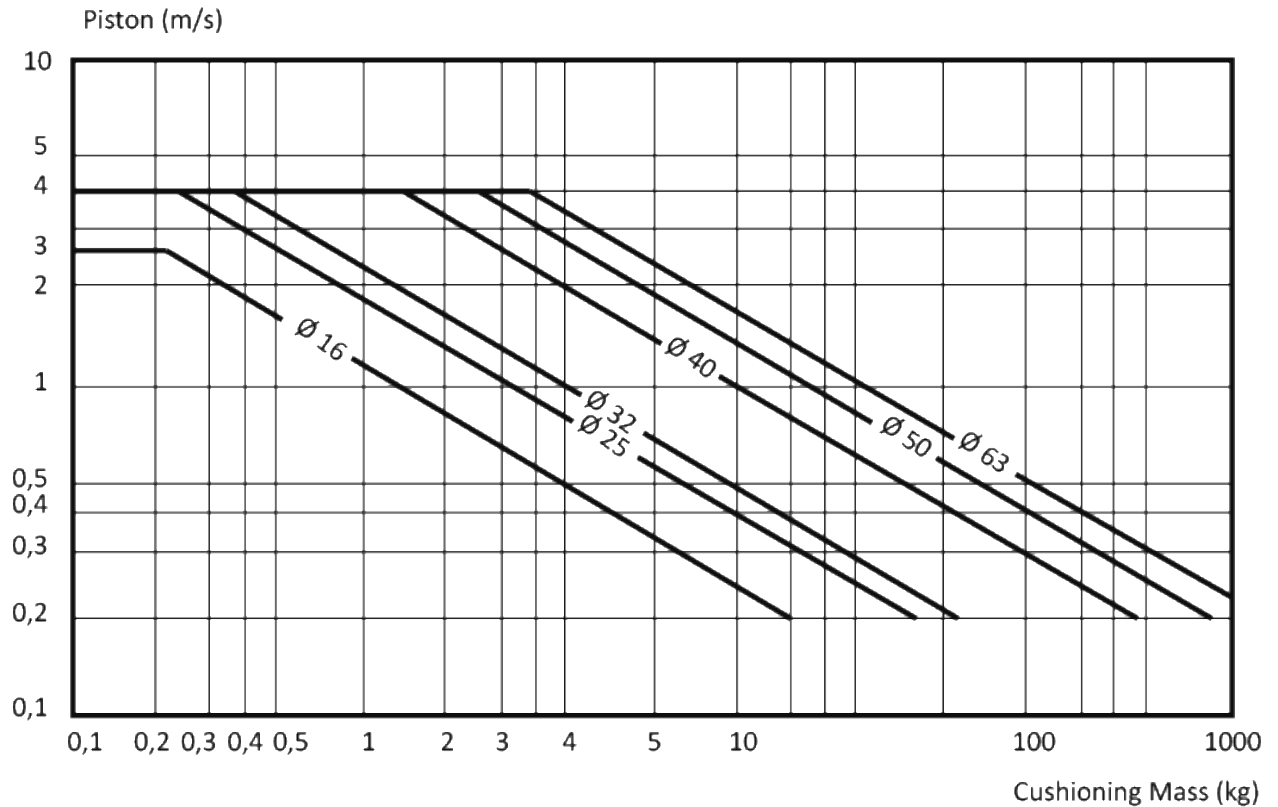
Piston Ø [mm]	ZRL1F series					
	16	25	32	40	50	63
Center distance Y [mm]	9	14	18	22	28	36
Effective force F (6 bar) [N]	110	250	420	640	1000	1550
Cushioning S [mm]	15	21	26	32	32	40
Max. load L [N]	120	300	450	750	1200	1650
Max. bending moment axial M_a [Nm]	4	15	30	60	115	200
Max. bending moment radial M_r [Nm]	0.3	1	2	4	7	8
Max. torque M_v [Nm]	0.5	3	4.5	8	15	24

The figures above are max. values based on light shock free duty and speed of $v \leq 0.45$ m/sec (ZRL1F series).
Max. pressure 6 bar.

An exceeding of the values in dynamic operations, even for short moments, has to be avoided.

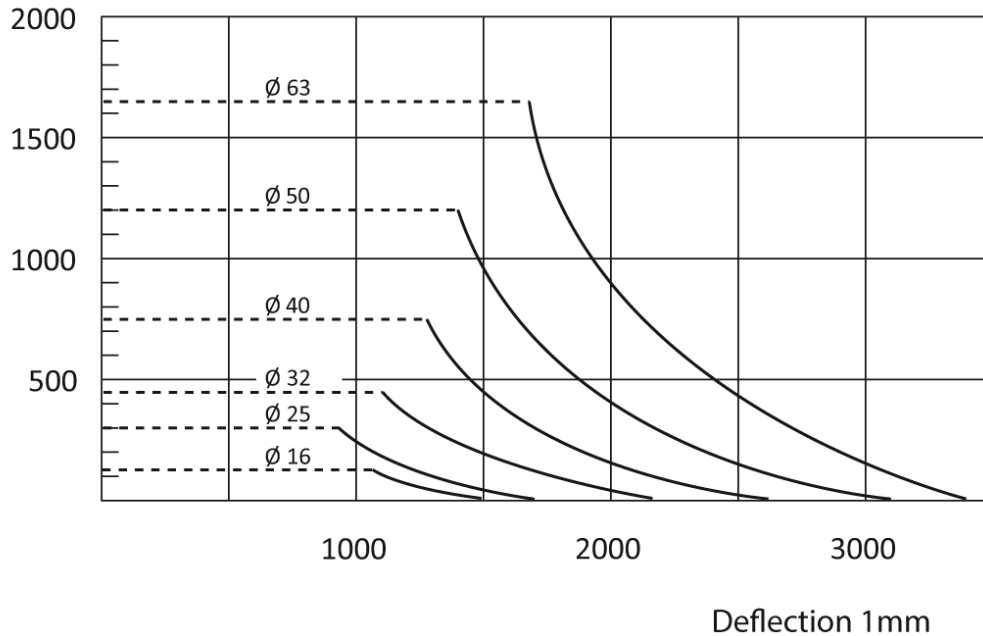
Attention:

Resulting forces could lead to extreme exceedings of the values. In case of undefinable situations, the above max. values have to be reduced by 10 to 20 %.

Cushioning diagram:

Pay attention to the following points:

- If the limits above are exceeded additional shock absorbers are necessary.
- For piston speeds of > 1 m/s FPM seals are recommended.
- For piston speeds ≤ 0.1 m/s (NBR) / ≤ 0.2 m/s (FPM) we recommend slow speed lubrication (variant LL).
- Maximum duration life will be achieved when piston speeds do not exceed 1 m/s.

Deflection diagram:
Load L (N)



max. distance (SL) in mm - without mid section support / mid section mounting

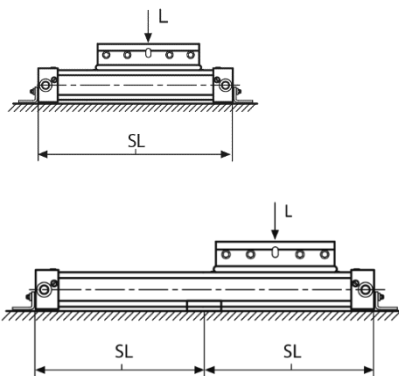


Diagram information:

- Calculated deflections without support of 0.5 to 1 mm allow exceeding of supporting distance.
- Calculated deflections without support of 1 to max. 1.5 mm require reduction of the supporting distance.

Rodless cylinders ZRL1S series

With integrated sliding guide

PLUS ||



Description:

ZRL1S series actuators feature an integrated plastic sliding guide and include piston diameters of 32, 40, 50 and 63 mm with stroke lengths up to 5700 mm.

Suitable for filtered (50 µm) and unlubricated or lubricated compressed air. Please ensure continuous oiling when using oiled compressed air.

The integrated sliding guide allows higher loads and makes the cylinders less sensitive to moisture, dirt and shocks. Please refer to our type code for the available variants and their corresponding type designations for your individual inquiry.

Other special designs are also available on request.

Technical data:

Piston Ø [mm]	32	40	50	63
Stroke length [mm]	100 ... 5700			
Acting type	Double acting			
Cushioning	Adjustable, three stage			
Fluid	Filtered air (50 µm), without or with lubrication. If lubrication is used, it must be continuous.			
Working pressure [bar]	0,5 ... 8,0			
Temperature range [°C]	-10 ... +55			
Number of pneumatic ports	3			
Connecting thread	G 1/4			G 3/8
Mounting	Free			
Forces and moments	See forces and moments			
Support forces	See deflection diagram			

Material:

Barrel	High-strength anodized aluminium
End caps	High-strength anodized aluminium
Piston axle	High-strength anodized aluminium
Seals	Oil-proof synthetic material (NBR/FPM)*
Sealing bands	Stainless steel
Piston caps	Wear-proof synthetic material
Sliding parts	Wear-proof synthetic material

*NBR seals recommended for piston speeds ≤ 1 m/s. FPM seals recommended for speeds > 1 m/s.

Structure of the type code:

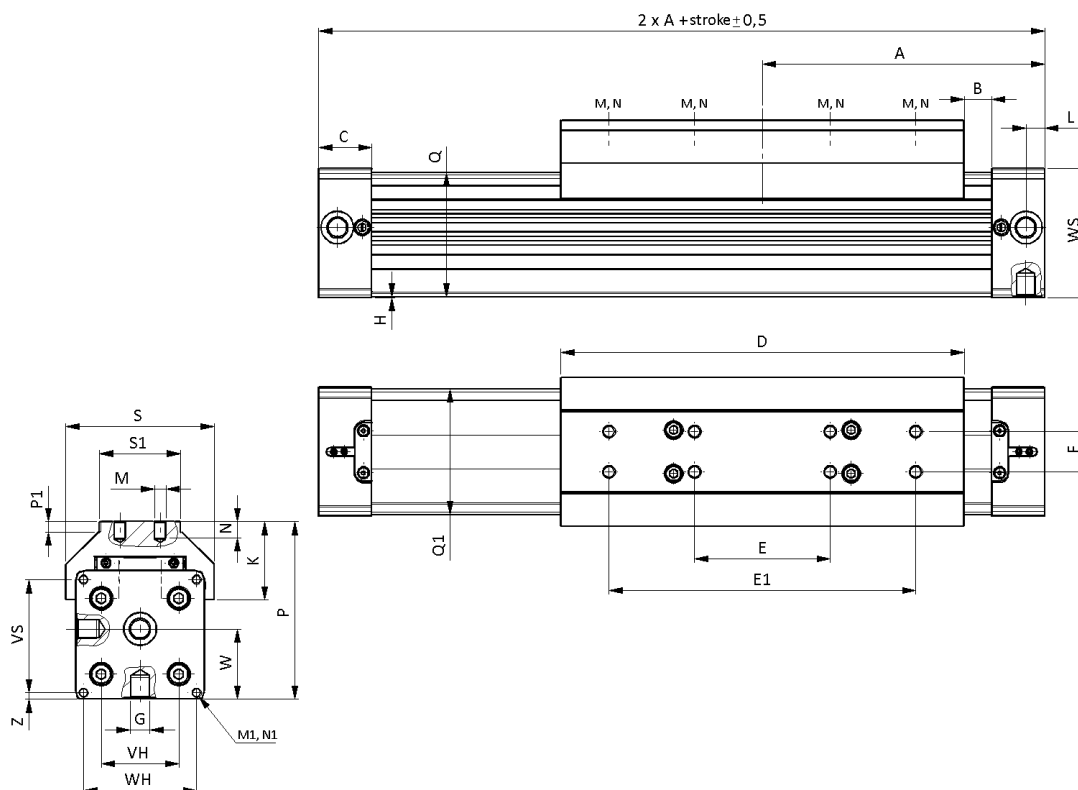
Example:

ZRL1S.250250.KBWF.LL

Piston Ø [mm]	Stroke min.–max. [mm]	Variant	Lubrication
32	0100 ... 5700 (Ø 32, 40, 50, 63)	Standard: - Rigid load connection - Screws 10.9 zinc plated - 3 air connections - NBR seals For speeds ≤1 m/s.	Standard lubrication
40			LL Slow speed lubrication
50			Recommended for speeds ≤ 0,1 m/s (NBR seals)/ ≤ 0,2 m/s (FPM seals).
63			
		SX Same as standard, except: ⊕ Stainless steel screws	
		F Same as standard, except: ⊕ FPM seals For speeds >1 m/s, at which the seals are exposed to increased temperature development.	
		SXF Same as standard, except: ⊕ Stainless steel screws ⊕ FPM seals For speeds >1 m/s.	
		LE Same as standard, except: ⊕ Air supply from one side	

- For each position in the type code, only one option can be selected by default.
Piston Ø and stroke must always be defined as the minimum specification, e. g. ZRL1S.320100.
- Standard options are not explicitly defined, meaning the position in the type code remains empty, e. g. ZRL1S.320100.LL.

Dimensions:



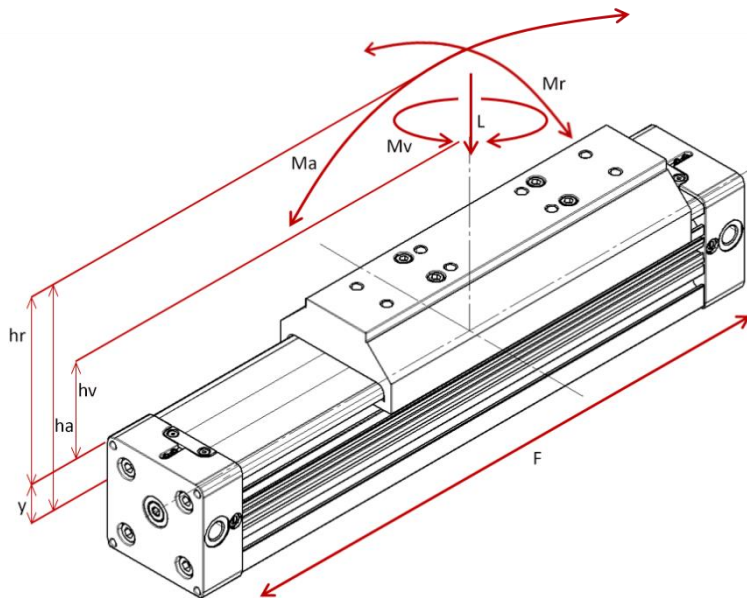
∅	A	B	C	D	E	E1	F	G	H	K	L	M	N	M1	N1	P	P1
32	125	22.0	27	152	60	120	25	1/4	2.0	42.5	10.5	M5	10	M6	14	81.5	6.5
40	150	12.5	30	215	68	160	25	1/4	7.0	44.0	15.0	M8	10	M6	17	97.5	6.5
50	175	17.5	33	250	84	190	25	1/4	0.5	48.5	11.7	M8	10	M6	18	110.0	6.5
63	215	6.5	55	320	120	240	25	3/8	1.5	56.0	25.0	M8	14	M8	18	137.0	5.0

∅	Q _x Q ₁	S	S1	VH	VS	W	WH	WS	Z
32	52x51	66	40	36	40	30.0	52	56	8.0
40	58.5x59	79	45	54	54	36.0	72	69	9.0
50	77x78	92	50	70	70	43.5	80	80	4.0
63	102x102	116	50	78	78	62.5	106	106	14.5



Rodless cylinders
ZRL1S series

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Formulas

$$M_a = F \cdot h_a$$

$$M_r = F \cdot h_r$$

$$M_v = F \cdot h_v$$

Forces and moments:

	Serie ZRL1S			
Piston Ø [mm]	32	40	50	63
Center distance Y [mm]	18	22	28	36
Effective force F (6 bar) [N]	420	640	1000	1550
Cushioning S [mm]	26	32	32	40
Max. load L [N]	495	825	1320	1815
Max. bending moment axial M_a [Nm]	39	99	170	315
Max. bending moment radial M_r [Nm]	15	35	58	105
Max. torque M_v [Nm]	39	99	170	317

- The indicated moments (max. $M_a/M_r/M_v$) are related to the guide rail centre. The load force (L) is the summary of all single forces related to the common centre of the mass. The centre of the mass can be placed inside or outside the surface area of the carrier.
- Normally the carrier would experience a dynamic load, which has to be considered with the calculation of needed piston force (F) and capacity of the guided system. Use the following calculation formular.

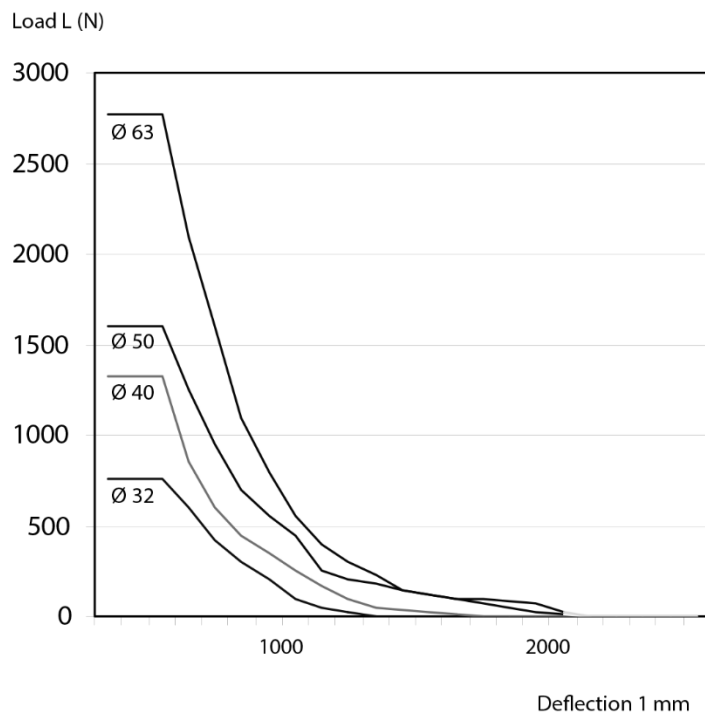
$$\frac{M_a}{L} + \frac{M_r}{L} + \frac{M_v}{L} + \frac{L}{L} < 1$$



Rodless cylinders
ZRL1S series

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Deflection diagram:



max. distance (SL) in mm - without mid section support / mid section mounting

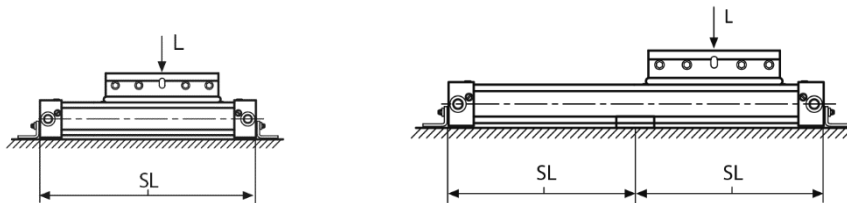


Diagram information:

- Calculated deflections without support of 0.5 to 1 mm allow exceeding of supporting distance.
- Calculated deflections without support of 1 to max. 1.5 mm require reduction of the supporting distance.

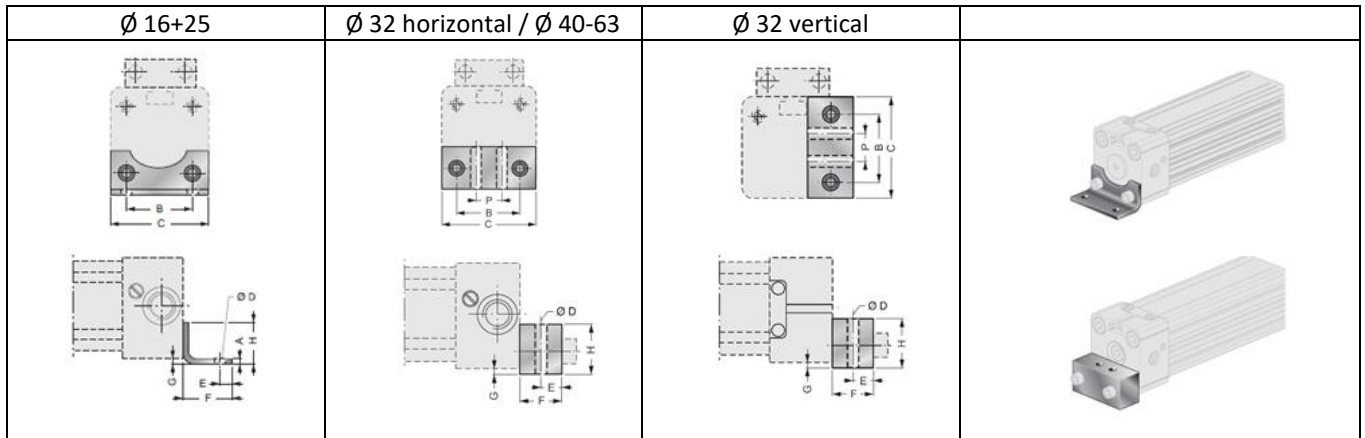


Rodless cylinders
Accessories ZRL1 series

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Accessories for rodless cylinders ZRL1 series

Foot bracket for ZRL1C, ZRL1F, ZRL1S - 2 pieces with 4 screws

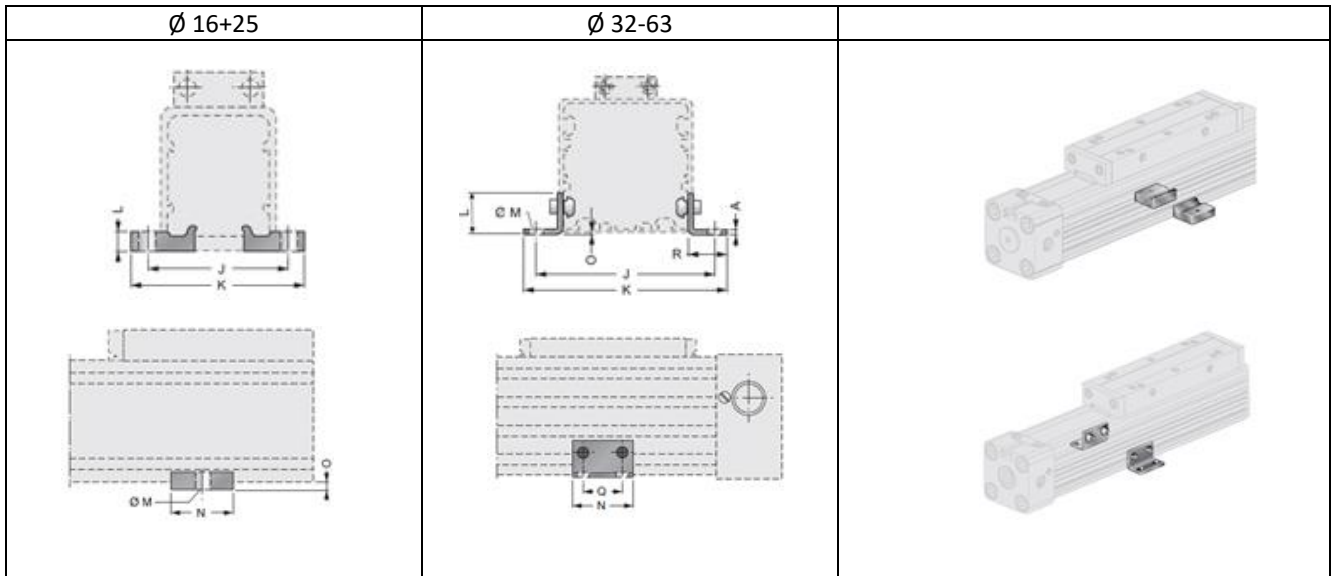


Art. No.	Type No.	Ø	A	B	C	D	E	F	G	H	P	Mounting orientation
129640	FB.ZRL1.16	16	1.5	18	26	3.6	4.0	14	1.5	12.5	-	horizontal + vertical
129641	FB.ZRL1.25	25	2.5	27	40	5.5	6.0	22	2.0	18.0	-	horizontal + vertical
129642	FB.ZRL1.32	32	-	36	51	6.5	8.0	24	4.0	20.0	20	horizontal
129643	FB.ZRL1.32V		-	40	56	6.6	8.0	26	4.0	20.0	20	vertical
129644	FB.ZRL1.40	40	-	54	71	9.0	11.5	24	2.0	20.0	30	horizontal + vertical
129645	FB.ZRL1.50	50	-	70	80	9.0	12.5	25	1.0	25.0	45	horizontal + vertical
129646	FB.ZRL1.63	63	-	78	105	11.0	15.0	40	2.0	40.0	48	horizontal + vertical



Mid section support for ZRL1C, ZRL1F, ZRL1S - 2 pieces

Mid section mounting for ZRL1C, ZRL1F, ZRL1S - 2 pieces with 4 screws and 4 slot nuts



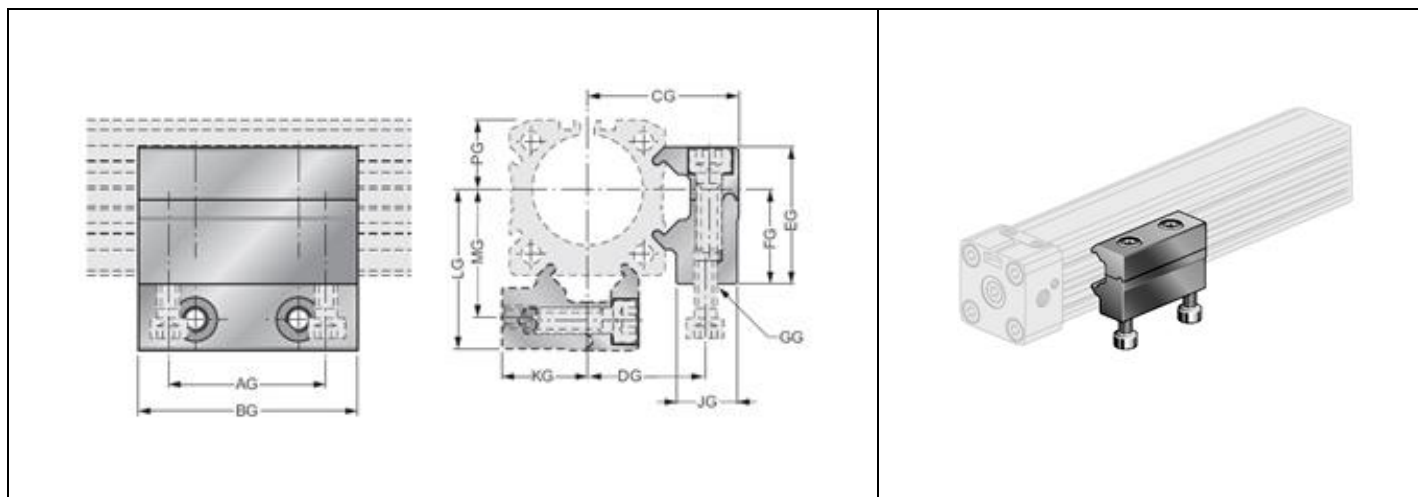
Art. No.	Type No.	Ø	J	K	L	M	N	O	Q	R
129647	ZS.ZRL1.16	16	41.5	53.5	5	5.5	20	3.0	-	-
129648	ZS.ZRL1.25	25	48.5	60.0	6	5.5	20	4.0	-	-
129649	MB.ZRL1.32	32	82.0	91.0	30	4.5	45	6.0	30	20
129650	MB.ZRL1.40	40	90.0	99.0	25	4.5	45	8.5	30	20
129651	MB.ZRL1.50	50	123.0	148.0	35	6.5	45	1.0	30	35
129652	MB.ZRL1.63	63	147.0	172.0	35	6.5	45	3.5	30	35



Rodless cylinders
Accessories ZRL1 series

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Mobile mid section mounting version G for ZRL1C, ZRL1F - 1 piece with 2 screws

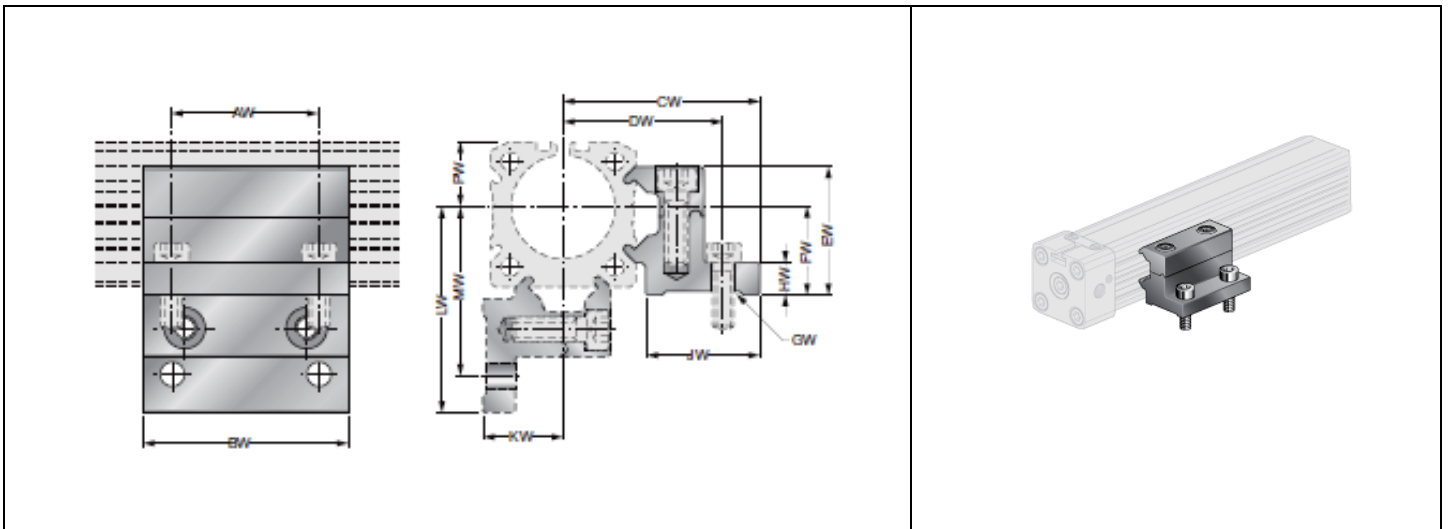


Art. No.	Type No.	Ø	AG	BG	CG	DG	EG	FG	GG	JG	KG	LG	MG	PG
129653	MMBG.ZRL1.16	16	18	30	27.5	18.4	21.0	15	M4	11.5	13.9	29.0	19.7	10.8
129654	MMBG.ZRL1.25	25	36	50	34.5	27.0	31.3	22	M5	14.0	20.0	36.5	29.0	16.0



MMBG.ZRL1.16

Mobile mid section mounting version W for ZRL1C, ZRL1F - 1 piece with 2 screws



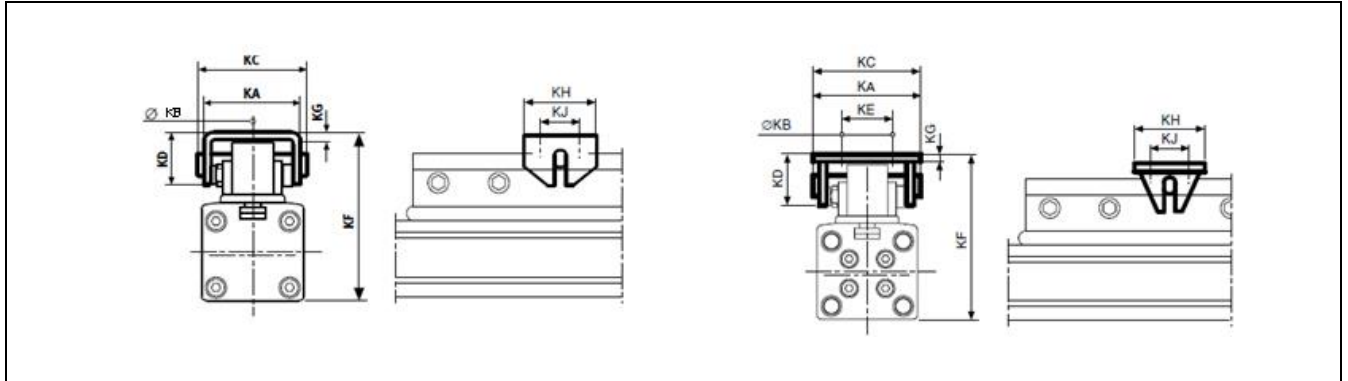
Art. No.	Type No.	∅	AW	BW	CW	DW	EW	FW	GW	HW	JW	KW	LW	MW	PW
129655	MMBW.ZRL1.16	16	18	30	37.0	32.5	21.0	15	4.5	6	22.4	13.9	38.0	32.9	10.8
129656	MMBW.ZRL1.25	25	36	50	47.5	40.0	31.3	22	5.5	10	26.0	20.0	49.5	42.0	16.0



Rodless cylinders
Accessories ZRL1 series

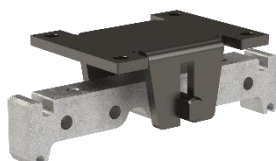
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Articulated carrier for ZRL1C - 1 piece incl. bolt



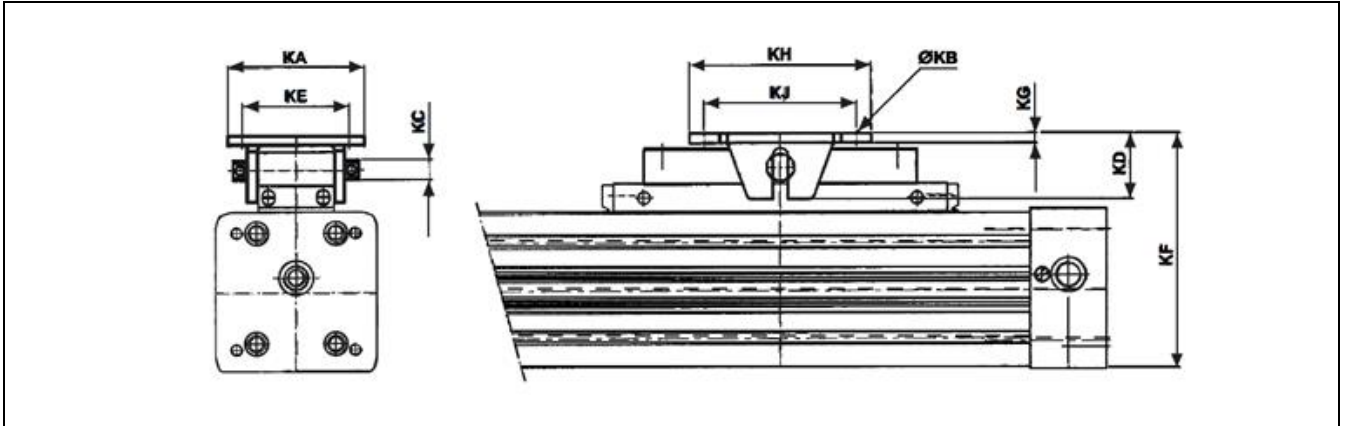
Art. No.	Type No.	Ø	KA	KB	KC	KD	KE	KF*	KG	KH	KJ
129657	KBW.ZRL1C.16	16	25	4.5	28	12	-	47-50	2	20	10
129658	KBW.ZRL1C.25	25	37	5.5	42	20	-	72-75	3	30	16
129659	KBW.ZRL1C.32	32	70	7.0	70	38	55	91-100	5	90	75
129660	KBW.ZRL1C.40	40	70	7.0	70	38	55	111-120	5	90	75

*Variable within the length of the available fork depth.



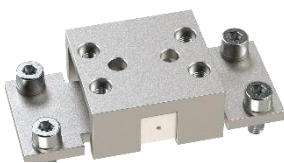
KBW.ZRL1C.40

Articulated carrier for ZRL1F - 1 piece with 4 screws and 4 washers



Art. No.	Type No.	Ø	KA	KB	KC	KD	KE	KF*	KG	KH	KJ
129661	KBW.ZRL1F.16	16	26	M4	3.5	10.0	10	46.5-47.5	3.0	28	20
129662	KBW.ZRL1F.25	25	38	M5	8.0	19.0	16	71.5-73.5	3.5	40	30
129663	KBW.ZRL1F.32	32	62	M6	12.0	28.0	25	94.5-96.5	6.0	60	46
129664	KBW.ZRL1F.40	40	62	M6	12.0	28.0	25	108-110	6.0	60	46
129665	KBW.ZRL1F.50	50	90	9	15.0	43.7	70	135-150	6.4	120	100
129666	KBW.ZRL1F.63	63	90	9	15.0	43.7	70	155-170	6.4	120	100

* Variable within the length of the available fork depth.



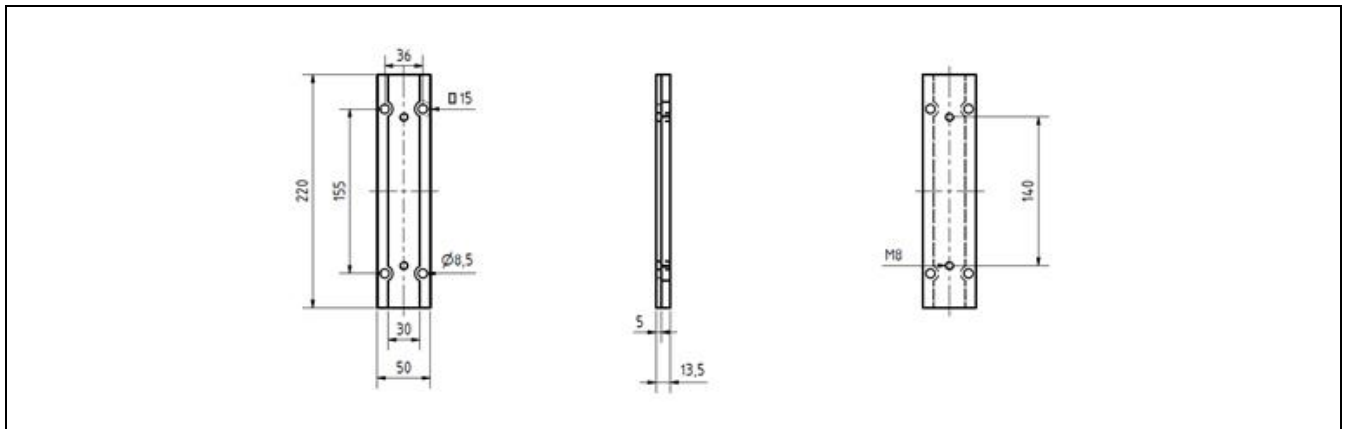
KBW.ZRL1F.16



Rodless cylinders
Accessories ZRL1 series

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Adapter plate for ZRL1F Ø 63 - profile increase, 1 piece with 4 screws and 4 washers



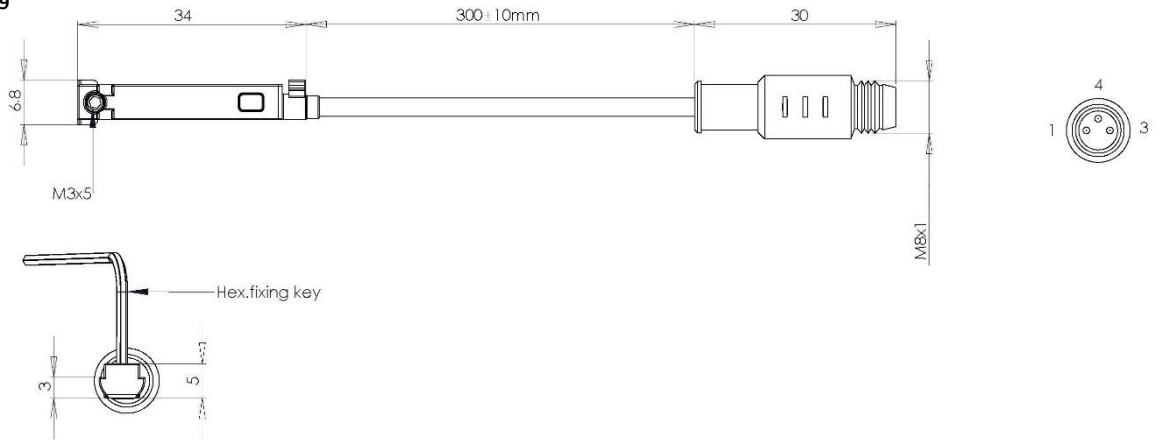
Art. No.	Type No.	Ø
129667	AP.ZRL1F.63	63



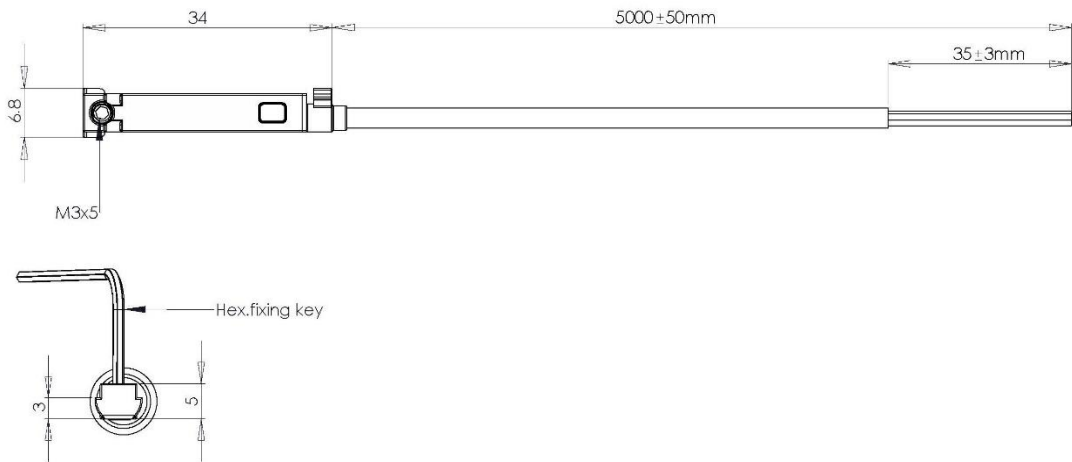
AP.ZRL1F.63

Sensors for ZRL1C, ZRL1F, ZRL1S

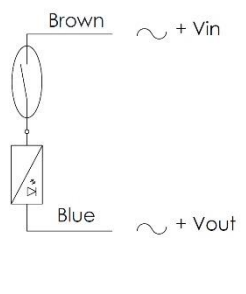
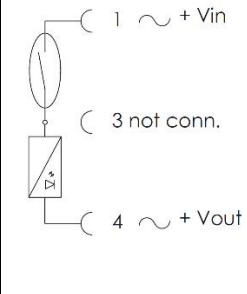
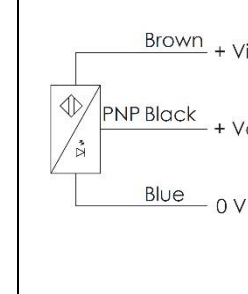
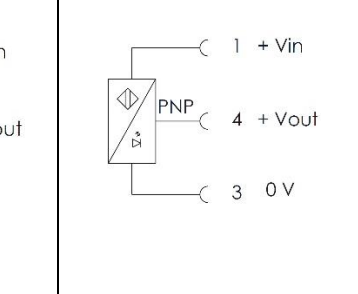
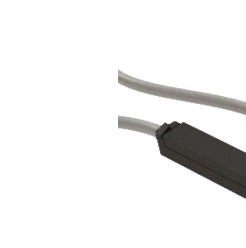
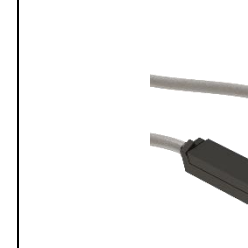
129738 + 129639

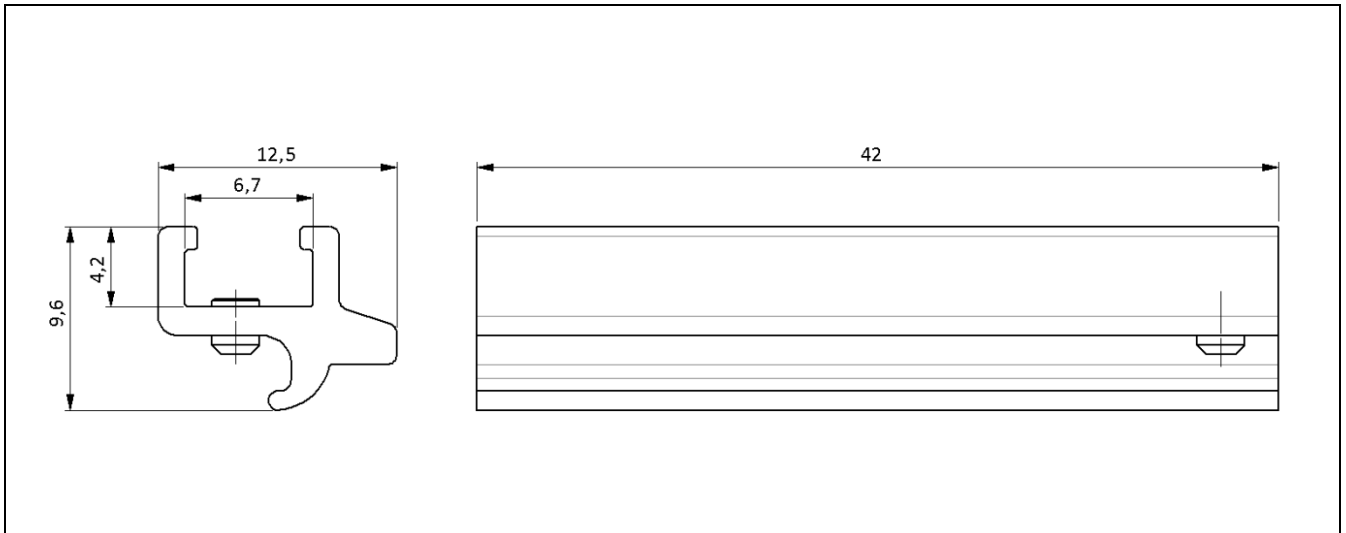


129638 + 129739



REED				HALL			
Art. No.	Type No.	Art. No.	Type No.	Art. No.	Type No.	Art. No.	Type No.
129638	RS.ZRL1.K5	129738	RS.ZRL1.M8	129739	HS.ZRL1.PNP.K5	129639	HS.ZRL1.PNP.M8

Switching function	NO								
Rated voltage	5 ... 130 V AC/DC		5 ... 50 V AC/DC		10 ... 30 V DC				
Max. current	200 mA								
Max. power	6 W			4 W					
Max. voltage drop	3 V			0.7 V					
LED color	yellow								
Number of contacts	2 x 0.14 mm ²			3 x 0.14 mm ²					
Cable	PUR, 5 m, Ø 2.7 mm		PUR, 300 mm, Ø 2.7 mm		PUR, 5 m, Ø 2.7 mm		PUR, 300 mm, Ø 2.7 mm		
Temperature range (static installation)	-25 °C ... +70 °C								
Housing material	PA6								
Mounting	Headless screw M3x5								
Max. torque headless screw	0.15 Nm								
Protection class (when correctly assembled)	IP 67								
Switching time	1 ms			0,1 ms					
Electrical life	10 ⁷ (24 V DC, 10 mA)			10 ¹¹ (24 V DC, 10 mA)					
Wirin diagram									
									

Sensor adapter for ZRL1C, ZRL1F, ZRL1S


Art. No.	Type No.	Material	Description
129668	SA.ZRL1	Aluminium	for mounting the sensor on the cylinder



SA.ZRL1

Note: For series ZRL1C, ZRL1F and ZRL1S, the sensor adapter is only necessary for \varnothing 16 and \varnothing 25.

Sensor cable for ZRL1C, ZRL1F, ZRL1S

Art. No.	Type No.	Description
129669	SK.M8.5	with M8 connector, straight, 5m, PVC



SK.M8.5