

Piston rod cylinders → Standard cylinders


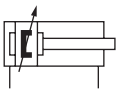












ISO 15552, Series ICL

Brochure




















Piston rod cylinders → Standard cylinders

ISO 15552, Series ICL

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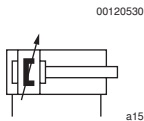
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Piston rod cylinders → Standard cylinders

Profile cylinder, ISO 15552, Series ICL

► Ø 32 - 125 mm ► Ports: G 1/8 - G 1/2 ► double-acting ► with magnetic piston ► cushioning: pneumatically, adjustable ► Piston rod: external thread



Standards	ISO 15552
Compressed air connection	internal thread
Working pressure min./max.	1.5 bar / 10 bar
Ambient temperature min./max.	-25 °C / +70 °C
Medium temperature min./max.	-25 °C / +70 °C
Medium	Compressed air
Max. particle size	50 µm
Oil content of compressed air	0 mg/m ³ - 5 mg/m ³
Pressure for determining piston forces	6,3 bar

Materials:	
Cylinder tube	Aluminum, anodized
Piston rod	Stainless steel
Front cover	Die-cast aluminum, anodized
End cover	Die-cast aluminum, anodized
Seal	Polyurethane
Nut for piston rod	Stainless steel
Scraper	Polyester elastomer

Technical Remarks

- The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C.
- The oil content of air pressure must remain constant during the life cycle.
- Use only the approved oils from Bosch Rexroth, see chapter „Technical information“.
- Clamping piece for magnetic field sensor necessary

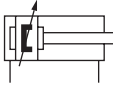
Piston Ø	[mm]	32	40	50	63	80	
Retracting piston force	[N]	435	665	1039	1766	2855	
Extending piston force	[N]	507	792	1237	1964	3167	
Cushioning length	[mm]	11.5	15	17	16.5	19.5	
Cushioning energy	[J]	4.8	9	15	27	54	
Weight	0 mm stroke	[kg]	0.45	0.76	1.1	1.17	2.5
	+10 mm stroke	[kg]	0.02	0.029	0.045	0.049	0.078
Stroke max.	[mm]	1850	1850	1850	1850	1800	

Piston Ø	[mm]	100	125			
Retracting piston force	[N]	4639	7422			
Extending piston force	[N]	4948	7731			
Cushioning length	[mm]	19.5	22			
Cushioning energy	[J]	88	140			
Weight	0 mm stroke	[kg]	3.7	6.9		
	+10 mm stroke	[kg]	0.1	0.131		
Stroke max.	[mm]	1800	1800			

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► Ø 32 - 125 mm ► Ports: G 1/8 - G 1/2 ► double-acting ► with magnetic piston ► cushioning: pneumatically, adjustable ► Piston rod: external thread

	Piston Ø Piston rod thread Ports Piston rod Ø	32 M10x1,25 G 1/8 12	40 M12x1,25 G 1/4 16	50 M16x1,5 G 1/4 16	63 M16x1,5 G 3/8 20	80 M20x1,5 G 3/8 25	
	Stroke 25	R480060005	R480060018	R480060026	R480060036	R480060060	
	50	R480058830	R480059528	R480060027	R480058890	R480060061	
	80	R480060006	R480060019	R480060028	R480060037	R480060063	
	100	R480059075	R480060020	R480060029	R480060038	R480060064	
	125	R480060007	R480060021	R480060030	R480060039	R480059699	
	160	R480060008	R480059526	R480060031	R480060040	R480060065	
	200	R480060009	R480060022	R480060032	R480060041	R480059532	
	250	R480060010	R480060023	R480060033	R480060043	R480060066	
	320	R480060011	R480060024	R480060034	R480060042	R480060067	
	400	R480060012	R480059529	R480058941	R480060044	R480060068	
	500	R480060013	R480060025	R480060035	R480060045	R480060069	
		Piston Ø Piston rod thread Ports Piston rod Ø	100 M20x1,5 G 1/2 25	125 M27x2 G 1/2 32			
	Stroke 25	R480060070	R480060080				
	50	R480060071	R480060081				
	80	R480060072	R480060082				
	100	R480060073	R480060083				
	125	R480060074	R480060084				
	160	R480060075	R480060085				
	200	R480060076	R480060086				
	250	R480058909	R480060087				
320	R480060077	R480060088					
400	R480060078	R480060089					
500	R480060079	R480060091					

Configurable product



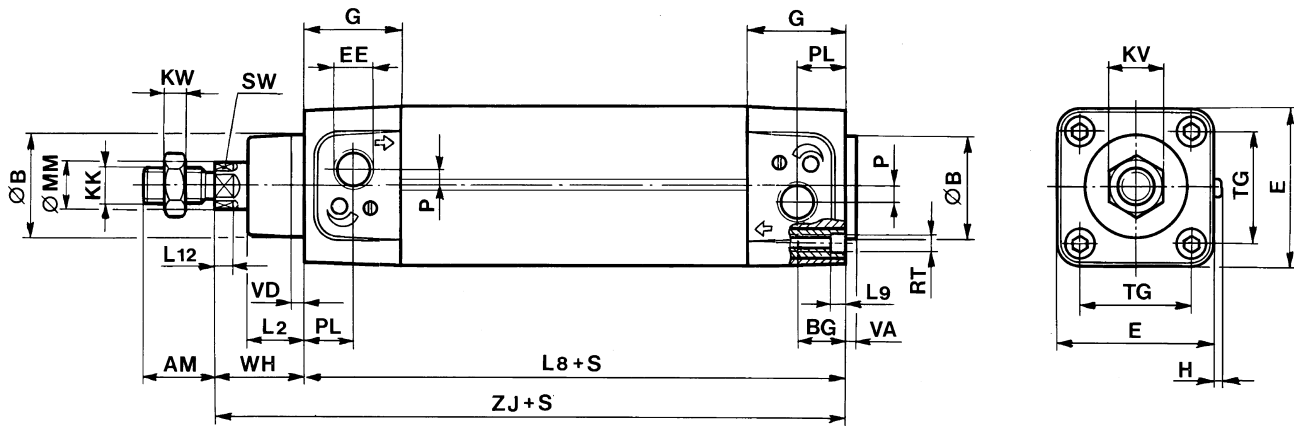
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Profile cylinder, ISO 15552, Series ICL

► Ø 32 - 125 mm ► Ports: G 1/8 - G 1/2 ► double-acting ► with magnetic piston ► cushioning: pneumatically, adjustable ► Piston rod: external thread

Dimensions



D523_053

S = stroke

Piston Ø	AM	ØB d11	BG	E	EE	G	H	KK	KV	KW	L2	L8	L9
32	22	30	16	49.5	G 1/8	28	3.1	M10x1,25	16	5	16	94 ±0,4	5
40	24	35	16	54.5	G 1/4	33	3.1	M12x1,25	18	6	19	105 ±0,7	5
50	32	40	18	67	G 1/4	31	3.1	M16x1,5	24	8	24	106 ±0,7	6
63	32	45	18	78	G 3/8	38	3.1	M16x1,5	24	8	24	121 ±0,8	6
80	40	45	19	100	G 3/8	38	3.1	M20x1,5	30	10	30	128 ±0,8	0.5
100	40	55	19	120	G 1/2	42	3.1	M20x1,5	30	10	35	138 ±1	0.5
125	54	60	21	145	G 1/2	54	3.1	M27x2	41	13.5	45	160 ±1	0.6

Piston Ø	L12	P	ØMM g8	PL	RT	SW	TG	VA	VD	WH	ZJ		
32	6	4	12	16	M6	10	32,5 ±0,5	3.5	4	26	120		
40	6.5	5	16	17	M6	13	38,0 ±0,5	3.5	4	30	135		
50	8	7.7	20	16	M8	17	46,5 ±0,6	4	4	37	143		
63	8	11	20	19	M8	17	56,5 ±0,7	4	4	37	158		
80	10	11	25	19	M10	22	72,0 ±0,7	4	4	46	174		
100	10	17	25	19	M10	22	89,0 ±0,7	4	4	51	189		
125	13	27.5	32	20	M12	27	110 ±1,1	6	4	65	225		

Piston rod cylinders → Standard cylinders

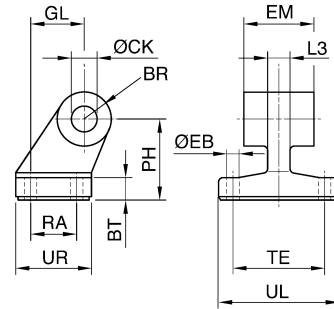
ISO 1552, Series ICL
Accessories

Bearing block AB7 with fixed bearing

► Cylinder mounting in accordance with ISO 1552



00105160



00105184

Part No.	Piston Ø	BR	BT	Ø CK H9	Ø EB H13	EM	GL JS14	L3 1)	PH JS15	RA JS14	TE JS14
1825805275	32	10	8	10	6.6	26 -0,2/-0,6	21	10	32	18	38
1825805276	40	11	10	12	6.6	28 -0,2/-0,6	24	12	36	22	41
1825805277	50	13	12	12	9	32 -0,2/-0,6	33	16	45	30	50
1825805278	63	15	12	16	9	40 -0,2/-0,6	37	16	50	35	52
1825805279	80	15	14	16	11	50 -0,2/-0,6	47	20	63	40	66
1825805280	100	19	15	20	11	60 -0,2/-0,6	55	20	71	50	76
1825805281	125	22,5	20	25	14	70 -0,5/-1,5	70	30	90	60	94

Part No.	UL 1)	UR 1)	Material	Surface							
1825805275	51	31	Nodular graphite iron	galvanized							
1825805276	54	35	Nodular graphite iron	galvanized							
1825805277	65	45	Nodular graphite iron	galvanized							
1825805278	67	50	Nodular graphite iron	galvanized							
1825805279	86	60	Nodular graphite iron	galvanized							
1825805280	96	70	Nodular graphite iron	galvanized							
1825805281	124	90	Nodular graphite iron	galvanized							

1) Max.

Piston rod cylinders → Standard cylinders

ISO 15552, Series ICL

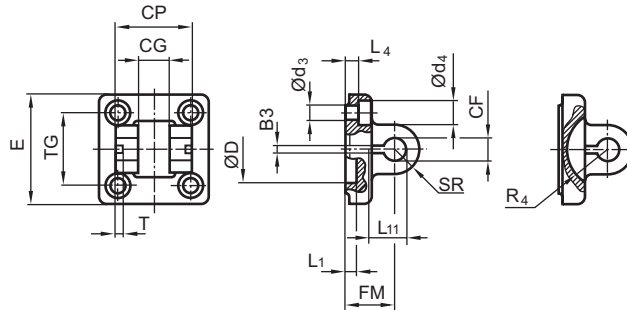
Accessories

Clevis mounting AB6

► Cylinder mounting in accordance with ISO 15552



00105816



00105819

Scope of delivery: clevis mounting incl. pivot pins and mounting screws

Part No.	Piston Ø	B3 ±0,2	Ø CF F7	CG D10	CP d12	Ø d3	Ø d4	Ø D	E	FM ±0,2	L1 1)	L4 ±0,5
1827001593	32	3.3	10	14	34	6.6	11	30	49	22	4.5	5.5
1827001594	40	4.3	12	16	40	6.6	11	35	55	25	4.5	5.5
1827001595	50	4.3	16	21	45	9	15	40	67	27	4.5	6.5
1827002024	63	4.3	16	21	51	9	15	45	77	32	4.5	6.5
1827001597	80	4.3	20	25	65	11	18	45	97	36	4.5	10
1827001598	100	4.3	20	25	75	11	18	55	117	41	4.5	10
1827001599	125	6.3	30	37	97	14	20	60	140	50	7	10

Part No.	L11 -0,5	R4	SR	T ±0,2	TG	Material						
1827001593	16.5	17	11	3	32,5 ±0,2	Aluminum						
1827001594	18	20	12	4	38 ±0,2	Aluminum						
1827001595	23	22	15	4	46,5 ±0,2	Aluminum						
1827002024	23	25	15	4	56,5 ±0,2	Aluminum						
1827001597	27	30	20	4	72 ±0,2	Aluminum						
1827001598	27	32	20	4	89 ±0,2	Aluminum						
1827001599	40	42	26	6	110 ±0,3	Aluminum						

1) Min.

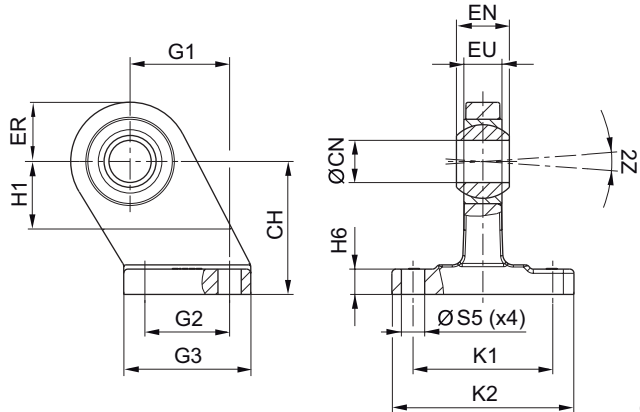
Piston rod cylinders → Standard cylinders

ISO 1552, Series ICL
Accessories

CS7 bearing block with ball joint and foot, angled
► Cylinder mounting in accordance with VDMA 24562 part 2



00105817



00105820

Part No.	Piston Ø	CH JS15	ØCN H7	EU 1)	EN -1,0	ER 1)	G1 JS14	G2 JS14	G3 1)	H1 2)	H6	K1 JS14
1827001784	32	32	10	10.5	14	16	21	18	31	16	9 ±1	38
1827001785	40	36	12	12	16	18	24	22	35	20	9 ±1	41
1827001786	50	45	16	15	21	21	33	30	45	22	11 ±1	50
1827001787	63	50	16	15	21	23	37	35	50	27	11 ±1	52
1827001788	80	63	20	18	25	28	47	40	60	31	12 ±1,5	66
1827001789	100	71	20	18	25	30	55	50	70	38	13 ±1,5	76
1827001790	125	90	30	25	37	40	70	60	90	40	17 ±1,5	94

Part No.	K2 1)	ØS5 H13	Z 2)	Material	Surface						
1827001784	51	6.6	4°	Nodular graphite iron	galvanized						
1827001785	54	6.6	4°	Nodular graphite iron	galvanized						
1827001786	65	9	4°	Nodular graphite iron	galvanized						
1827001787	67	9	4°	Nodular graphite iron	galvanized						
1827001788	86	11	4°	Nodular graphite iron	galvanized						
1827001789	96	11	4°	Nodular graphite iron	galvanized						
1827001790	124	14	4°	Nodular graphite iron	galvanized						

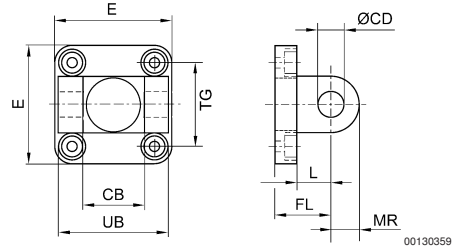
1) Max.
2) Min.

Piston rod cylinders → Standard cylinders

ISO 15552, Series ICL
 Accessories

Clevis mounting MP2

▶ Cylinder mounting in accordance with ISO 15552



Scope of delivery: clevis mounting incl. mounting screws

P523_025

Part No.	Piston Ø	CB H14	Ø CD H9	E	FL	L 1)	MR 2)	UB h13	TG	Material
1827001289	32	26	10	49 ±1	22 ±0,2	12	10	45	32,5 ±0,2	Aluminum
1827001290	40	28	12	53 ±1	25 ±0,2	15	13	52	38 ±0,2	Aluminum
1827001291	50	32	12	63 ±1	27 ±0,2	15	13	60	46,5 ±0,2	Aluminum
1827001500	63	40	16	73 ±1	32 ±0,2	18	17	70	56,5 ±0,2	Aluminum
1827001293	80	50	16	98 ±1	36 ±0,2	20	17	90	72,0 ±0,2	Aluminum
1827001294	100	60	20	115 ±1	41 ±0,2	25	18	110	89,0 ±0,2	Aluminum
1827004862	125	70	25	140	50 ±0,2	30	26	130	110 ±0,3	Nodular graphite iron

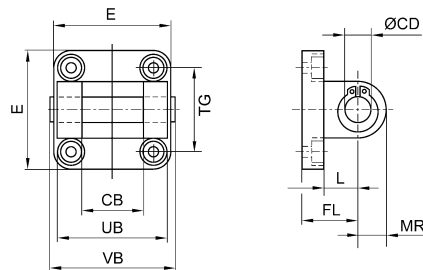
Part No.	Surface										
1827001289	-										
1827001290	-										
1827001291	-										
1827001500	-										
1827001293	-										
1827001294	-										
1827004862	galvanized										

1) Min.

2) Max.

Clevis mounting MP2

▶ Cylinder mounting in accordance with ISO 15552



Scope of delivery: clevis mounting incl. pivot pins and mounting screws

00128881

00126400_b

Piston rod cylinders → Standard cylinders

ISO 1552, Series ICL
Accessories

Part No.	Piston Ø	CB H14	Ø CD H9	E 1)	FL	L 2)	MR	UB h14	VB	TG	Material
3682903590	32	26	10	47	22 ±0,2	12	11	45	50	32,5 ±0,2	Die-cast aluminum
3682904590	40	28	12	54	25 ±0,2	15	13	52	57	38,0 ±0,2	Die-cast aluminum
3682905590	50	32	12	65	27 ±0,2	15	13	60	65	46,5 ±0,2	Die-cast aluminum
3682906590	63	40	16	75	32 ±0,2	20	17	70	76	56,5 ±0,2	Die-cast aluminum
3682908590	80	50	16	94	36 ±0,2	20	17	90	96	72,0 ±0,2	Die-cast aluminum
3682910590	100	60	20	112	41 ±0,2	25	21	110	117	89,0 ±0,2	Die-cast aluminum

Part No.	Surface	Screws									
3682903590	anodized	Stainless steel									
3682904590	anodized	Stainless steel									
3682905590	anodized	Stainless steel									
3682906590	anodized	Stainless steel									
3682908590	anodized	Stainless steel									
3682910590	anodized	Stainless steel									

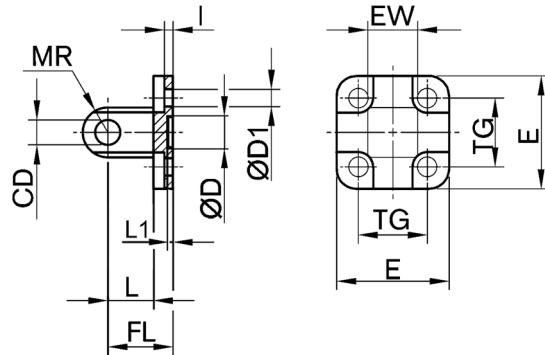
1) Max.
2) Min.

Rear eye MP4 for clevis mounting MP2 and AB3

► Cylinder mounting in accordance with ISO 15552



P523_024



00126403_a

Scope of delivery: clevis incl. mounting screws

Part No.	Piston Ø	CD H9	Ø D	Ø D1	E	EW	FL ±0,2	I ±0,5	L 1)	L1 1)	MR 2)
1827001283	32	10	30 H11	6.6	48	26 -0,2/-0,6	22	5.5	12	4.5	10
1827001284	40	12	35 H11	6.6	53	28 -0,2/-0,6	25	5.5	15	4.5	12
1827001285	50	12	40 H11	9	63	32 -0,2/-0,6	27	6.5	15	4.5	12
1827020086	63	16	45 H11	9	73	40 -0,2/-0,6	32	6.5	20	4.5	16
1827001287	80	16	45 H11	11	98	50 -0,2/-0,6	36	10	20	4.5	16
1827001288	100	20	55 H11	11	115	60 -0,2/-0,6	41	10	25	4.5	20
1827004866	125	25	60 H11	14	140	70 -0,5/-1,2	50	10	30	7	26
R412012202	32	10	30 H11	6.6	48	26 -0,2/-0,6	22	5.5	12	4.5	10
R412012203	40	12	35 H11	6.6	53	28 -0,2/-0,6	25	5.5	15	4.5	12
R412012204	50	12	40 H11	9	63	32 -0,2/-0,6	27	6.5	15	4.5	12

Part numbers marked in bold are available from the central warehouse in Germany, see the shopping basket for more detailed information Pneumatics catalog, online PDF, as of 2011-04-01, © Bosch Rexroth AG, subject to change

Piston rod cylinders → Standard cylinders

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Accessories

Part No.	Piston Ø	CD H9	Ø D	Ø D1	E	EW	FL ±0,2	I ±0,5	L 1)	L 1)	MR 2)
R412012205	63	16	45 H11	9	73	40 -0,2/-0,6	32	6.5	20	4.5	16
R412012206	80	16	45 H11	11	98	50 -0,2/-0,6	36	10	20	4.5	16
R412012207	100	20	55 H11	11	115	60 -0,2/-0,6	41	10	25	4.5	20

Part No.	TG	Material	Surface	Screws						
1827001283	32,5 ±0,2	Aluminum	-	-						
1827001284	38 ±0,2	Aluminum	-	-						
1827001285	46,5 ±0,2	Aluminum	-	-						
1827020086	56,5 ±0,2	Aluminum	-	-						
1827001287	72 ±0,2	Aluminum	-	-						
1827001288	89 ±0,2	Aluminum	-	-						
1827004866	110 ±0,3	Nodular graphite iron	nickel-plated	-						
R412012202	32,5 ±0,2	Aluminum	anodized	Stainless steel						
R412012203	38 ±0,2	Aluminum	anodized	Stainless steel						
R412012204	46,5 ±0,2	Aluminum	anodized	Stainless steel						
R412012205	56,5 ±0,2	Aluminum	anodized	Stainless steel						
R412012206	72 ±0,2	Aluminum	anodized	Stainless steel						
R412012207	89 ±0,2	Aluminum	anodized	Stainless steel						

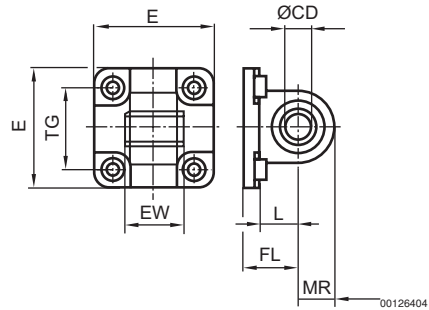
1) Min.

2) Max.

Rear eye MP9 with rubber bushing



P523_026



Scope of delivery: clevis incl. mounting screws

Part No.	Piston Ø	CD H9	E	EW	FL	L	MR	TG ±0,2	Material	Weight [kg]
3683202000	25	10	40	17.5	20	14.5	12	27	Die-cast aluminum	0.1
3683203000	32	10	46	25.5	22	16.5	14	32.5	Die-cast aluminum	0.1
3683204000	40	12	55	27	25	17.5	19	38	Die-cast aluminum	0.1
3683205000	50	12	62	31	27	18.5	19.5	46.5	Die-cast aluminum	0.2
3683206000	63	16	80	39.5	32	21.5	26	56.5	Die-cast aluminum	0.3
3683208000	80	16	94	49.5	36	24.5	27	72	Die-cast aluminum	0.4

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ISO 1552, Series ICL
Accessories

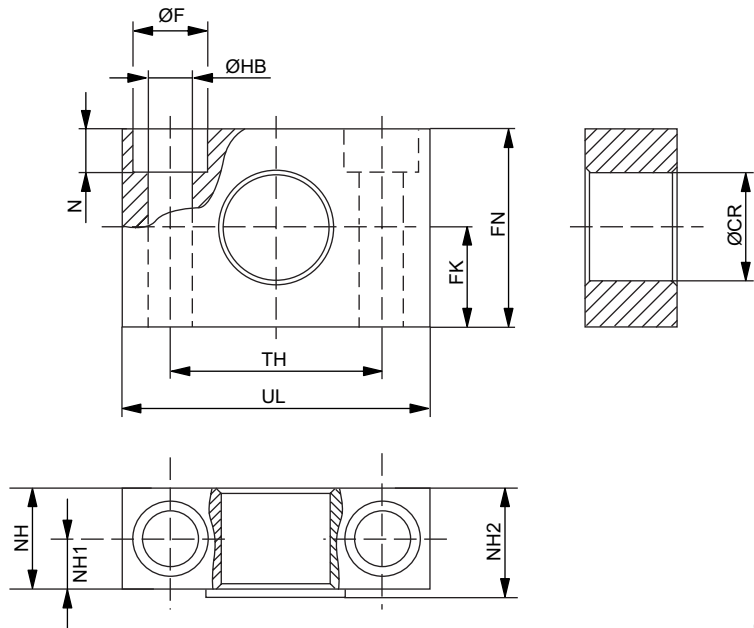
Part No.	Piston Ø	CD H9	E	EW	FL	L	MR	TG ±0,2	Material	Weight [kg]
3683210000	100	20	114	59.5	41	26.5	29	89	Die-cast aluminum	0.7

Bearing AT4 for trunnion mounting MT4, MT5, MT6

► Cylinder mounting in accordance with ISO 15552



00105163



00105221

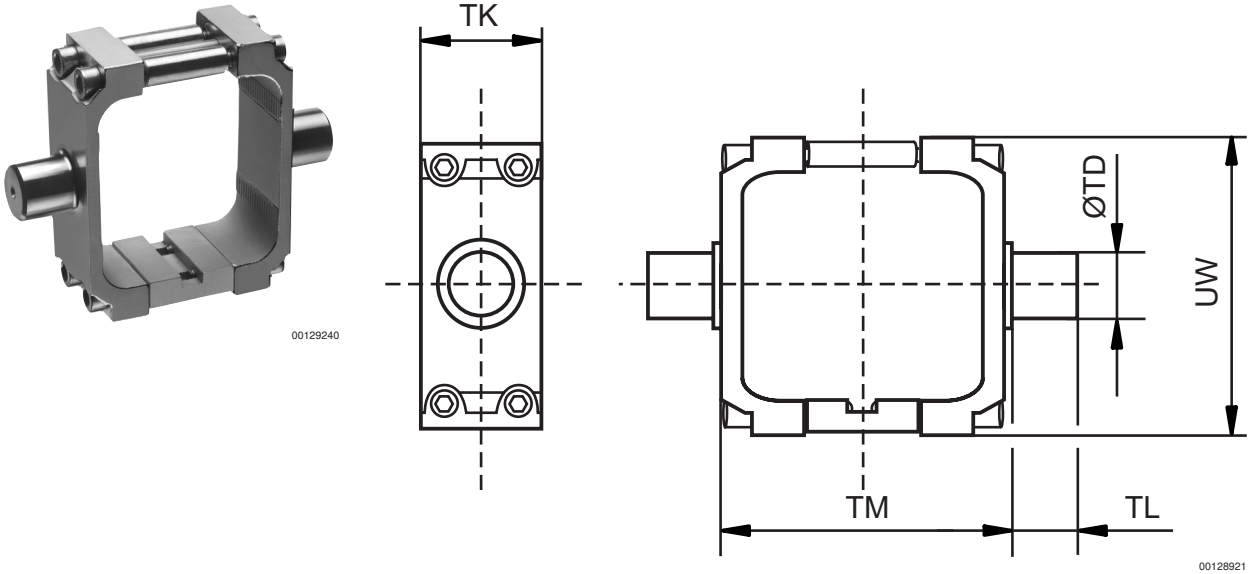
Part No.	Piston Ø	ØCR H7	ØF H13	FK ±0,1	FN	ØHB H12	N -0,4	NH	NH1	NH2	TH ±0,15	UL f8
1827001603	32	12	11	15 ±0,1	30	6.6	6.8	15	7.5	18	32 ±0,2	46
1827001604	40, 50	16	15	18 ±0,1	36	9	9	18	9	21	36 ±0,2	55
1827001605	63, 80	20	18	20 ±0,1	40	11	11	20	10	23	42 ±0,2	65
1827001606	100, 125	25	20	25 ±0,1	50	14	13	25	12.5	28.5	50 ±0,2	75

Part No.	Material	Surface	Delivery quantity [Piece]									
1827001603	Steel	galvanized	2									
1827001604	Steel	galvanized	2									
1827001605	Steel	galvanized	2									
1827001606	Steel	galvanized	2									

Piston rod cylinders → Standard cylinders

ISO 15552, Series ICL
Accessories

MT4 center trunnion mounting

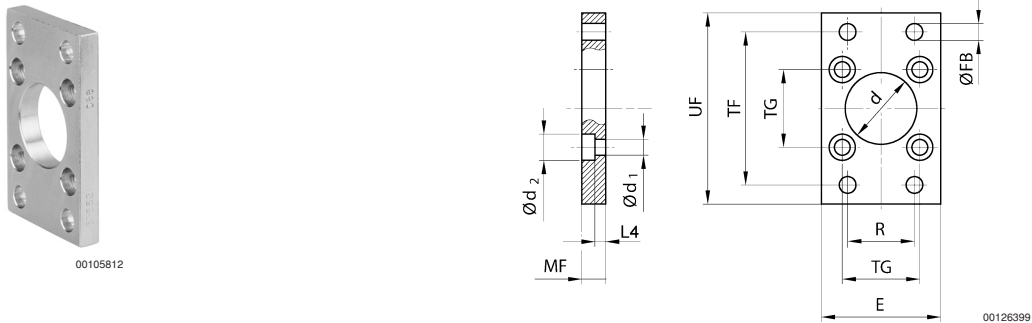


Part No.	Piston Ø	TK	TL h14	TM	UW	Ø TD e9	Material	Surface	Standardization
2795010320	32	25	12	56 ±0,8 1)	67 1)	12	Steel	galvanized	-
2795010400	40	28	16	63 ±0,8	75	16	Steel	galvanized	ISO 15552
2795010500	50	28	16	75 ±1,0	95	16	Steel	galvanized	ISO 15552
2795010630	63	36	20	90 ±1,0	105	20	Steel	galvanized	ISO 15552
2795010800	80	36	20	110 ±1,3	130	20	Steel	galvanized	ISO 15552
2795011000	100	48	25	132 ±1,3	145	25	Steel	galvanized	ISO 15552
2795011250	125	50	25	160 ±1,5	175	25	Steel	galvanized	ISO 15552

1) not according to ISO 15552

Flange mounting MF1, MF2

► Cylinder mounting in accordance with ISO 15552



Scope of delivery: flange mounting incl. mounting screws

Piston rod cylinders → Standard cylinders

ISO 1552, Series ICL
Accessories

Part No.	Piston Ø	Ø d H11	Ø d1	Ø d2	E 1)	Ø FB	L4	MF	R	TF	TG
1827001277	32	30	6.6	11	50	7	4.5	10	32	64	32,5 ±0,2
1827001278	40	35	6.6	11	55	9	4.5	10	36	72	38 ±0,2
1827001279	50	40	9	15	65	9	6	12	45	90	46,5 ±0,2
1827001499	63	45	9	15	75	9	6	12	50	100	56,5 ±0,2
1827001281	80	45	11	18	100	12	9	16	63	126	72 ±0,2
1827001282	100	55	11	18	120	14	9	16	75	150	89 ±0,2
1827004861	125	60	14	20	140	16	10.5	20	90	180	110 ±0,3

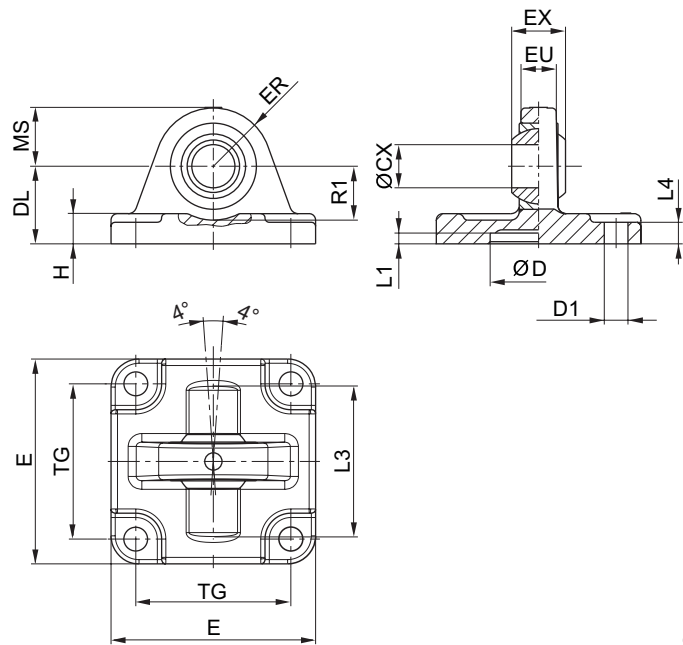
Part No.	UF	Material	Surface								
1827001277	80	Steel	galvanized								
1827001278	90	Steel	galvanized								
1827001279	110	Steel	galvanized								
1827001499	125	Steel	galvanized								
1827001281	154	Steel	galvanized								
1827001282	186	Steel	galvanized								
1827004861	220	Steel	galvanized								

1) Max.

Rear eye with ball joint, MP6



00105818



00126391

Scope of delivery: clevis incl. mounting screws

Part No.	Piston Ø	ØCX H7	ØD H11	ØD1 H13	DL ±0,2	E	EX -0,1	ER	EU	H	L1 min.	L3
1827001619	32	10	30	6.6	22	47	14	15	10.5	9	4.5	36
1827001620	40	12	35	6.6	25	53	16	18	12	9	4.5	42
1827001621	50	16	40	9	27	65	21	20	15	10.5	4.5	48
1827020087	63	16	45	9	32	75	21	23	15	10.5	4.5	55

Piston rod cylinders → Standard cylinders

ISO 15552, Series ICL
Accessories

Part No.	Piston Ø	ØCX H7	ØD H11	ØD1 H13	DL ±0,2	E	EX -0,1	ER	EU	H	L1 min.	L3
1827001623	80	20	45	11	36	95	25	27	18	14	4.5	70
1827001624	100	20	55	11	41	115	25	30	18	15	4.5	80
1827001625	125	30	60	14	50	140	37	40	25	16	7	100
2798060320	32	10	30	6,7	22	46	14	17	12,5	6.5	4.5	32,5
2798060400	40	12	35	6,7	25	55	16	20	14	8	4.5	38
2798060500	50	12	40	9	25	62	16	22	14	9	5	46,5
2798060630	63	16	45	9	32	80	21	25	17	11	5	56,5
2798060800	80	16	45	11	36	94	21	30	17	12	5	72
2798061000	100	20	55	11	41	114	25	32	20	15	5	89

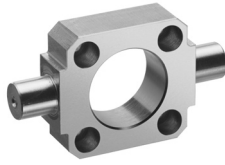
Part No.	L4	MS -0,5	R1 min.	TG	Material	Surface	Screws	Standardiza- tion
1827001619	5.5	15	12	32,5 ±0,2	Aluminum	- -		ISO 15552
1827001620	5.5	18	15	38 ±0,2	Aluminum	- -		ISO 15552
1827001621	6.5	21	19	46,5 ±0,2	Aluminum	- -		ISO 15552
1827020087	6.5	23	21	56,5 ±0,2	Aluminum	- -		ISO 15552
1827001623	10	27	24	72 ±0,2	Aluminum	- -		ISO 15552
1827001624	10	30	25	89 ±0,2	Aluminum	- -		ISO 15552
1827001625	10	40	33	110 ±0,3	Aluminum	- -		ISO 15552
2798060320	5,5	17	16,5	32,5	Aluminum	anodized	Stainless steel	-
2798060400	5,5	20	19,5	38	Aluminum	anodized	Stainless steel	-
2798060500	6,5	24	18,5	46,5	Aluminum	anodized	Stainless steel	-
2798060630	6,5	25	25,5	56,5	Aluminum	anodized	Stainless steel	-
2798060800	10	30	26	72	Aluminum	anodized	Stainless steel	-
2798061000	10	32	31	89	Aluminum	anodized	Stainless steel	-

Part No.	Weight [kg]									
1827001619	0.1									
1827001620	0.1									
1827001621	0.2									
1827020087	0.3									
1827001623	0.6									
1827001624	0.8									
1827001625	1.4									
2798060320	-									
2798060400	-									
2798060500	-									
2798060630	-									
2798060800	-									
2798061000	-									

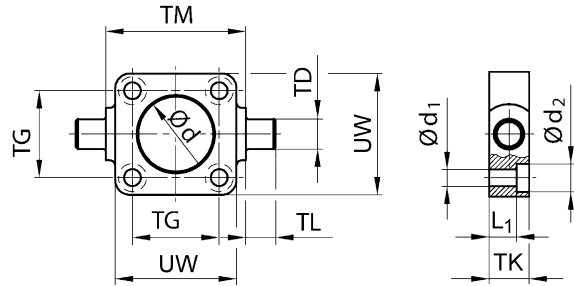
Piston rod cylinders → Standard cylinders

ISO 15552, Series ICL
Accessories

Trunnion mounting MT5, MT6, front or rear



00128925



00126407

The delivered product may vary from that in the illustration.
Scope of delivery: trunnion mounting incl. mounting screws

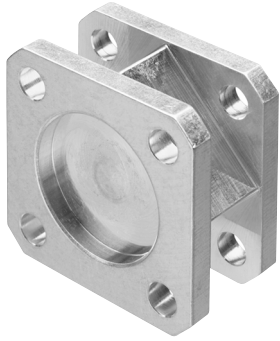
Part No.	Piston Ø	Ø d H11	Ø d1	Ø d2	L1	TG ±0,2	TK	TL h14	TM h14	UW	Ø TD e9
1827001609	32	30	6.6	11	7.5	32.5	16	12	50	48	12
1827001610	40	35	6.6	11	7.5	38	20	16	63	56	16
1827001611	50	40	9	15	10	46.5	24	16	75	65	16
1827002046	63	45	9	15	10	56.5	24	20	90	75	20
1827001613	80	45	11	18	16	72	28	20	110	100	20
1827001614	100	55	11	18	25.5	89	38	25	132	120	25
1827001615	125	60	14	20	34	110	46	25	160	145	25

Part No.	Material	Surface									
1827001609	Nodular graphite iron	galvanized									
1827001610	Nodular graphite iron	galvanized									
1827001611	Nodular graphite iron	galvanized									
1827002046	Nodular graphite iron	galvanized									
1827001613	Nodular graphite iron	galvanized									
1827001614	Nodular graphite iron	galvanized									
1827001615	Nodular graphite iron	galvanized									

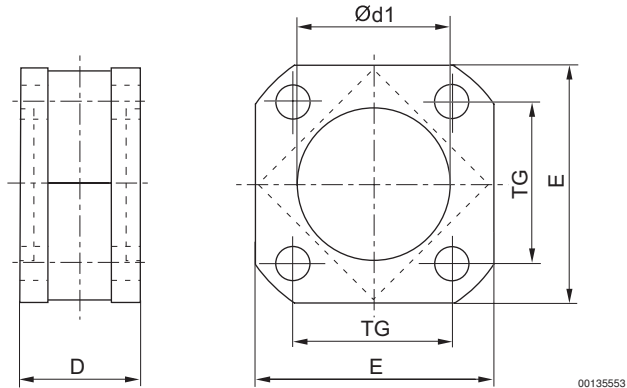
Piston rod cylinders → Standard cylinders

ISO 15552, Series ICL
Accessories

Intermediate flange JP1 for multi-position cylinders



00135554



00135553

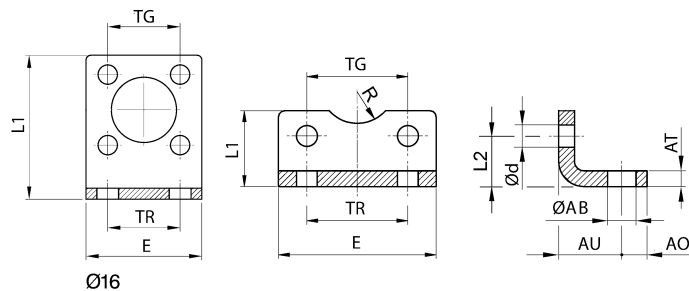
Scope of delivery: Incl. mounting screws

Part No.	Piston Ø	D	Ø d1 N7	E	TG	Material					
1827020247	32	27	30	47	32.5	Aluminum					
1827020248	40	27	35	53	38	Aluminum					
1827020249	50	32	40	65	46.5	Aluminum					
1827020250	63	28	45	75	56.5	Aluminum					
1827020251	80	38	45	95	72	Aluminum					
1827020252	100	38	55	115	89	Aluminum					
1827020253	125	44	60	140	110	Aluminum					

Foot mounting MS1



00105808



Ø16

00126387

Scope of delivery: 2 foot mountings incl. mounting screws

Part No.	Piston Ø	ØAB	AO	AT	AU ±0,2	Ød	E	L1	L2	R
1827001271	32	7	8	4 ±0,3	24	6.6	48	25	15.5	15
1827001272	40	10	10	4 ±0,3	28	6.6	56	26	17	17.5
1827001273	50	10	11	5 ±0,3	32	9	68	32	21.5	20
1827001498	63	10	13	5 ±0,3	32	9	78	34	21.5	22.5
1827001275	80	12	16	6 ±0,5	41	11	98	47	27	22.5
1827001276	100	14.5	19	6 ±0,5	41	11	117	52	26.5	27.5

Piston rod cylinders → Standard cylinders

ISO 1552, Series ICL
Accessories

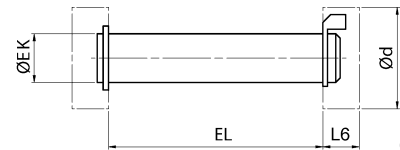
Part No.	Piston Ø	ØAB	AO	AT	AU ±0,2	Ød	E	L1	L2	R
1827001310	125	16.5	20	8 ±1,0	45	13.5	144	69	30	30

Part No.	TG ±0,2	TR	Material	Surface						
1827001271	32,5 ±0,2	32	Steel	galvanized						
1827001272	38 ±0,2	36	Steel	galvanized						
1827001273	46,5 ±0,2	45	Steel	galvanized						
1827001498	56,5 ±0,2	50	Steel	galvanized						
1827001275	72 ±0,2	63	Steel	galvanized						
1827001276	89 ±0,2	75	Steel	galvanized						
1827001310	110 ±0,3	90	Steel	galvanized						

AA4 axle



00105158



00105182

Part No.	Piston Ø	Ø EK e8	EL	Ø d 1)	L6 1)	Ø TD e9	Material	Surface	Standardiza- tion
1823120020	32	10	45,2 +2	23	9	10	Steel	galvanized	-
1823120021	40	12	52,2 +2	25	9	12	Steel	galvanized	-
1823120022	50	12	60,2 +2	25	9	12	Steel	galvanized	-
1823120023	63	16	70,2 +2	32	11	16	Steel	galvanized	-
1823120024	80	16	90,2 +2	32	11	16	Steel	galvanized	-
1823120025	100	20	110,2 +2	40	11	20	Steel	galvanized	-
5236000092	125	25	132 +0,5	34.2	3,5	25	Steel	galvanized	ISO 15552

Part No.	Note									
1823120020	2)									
1823120021	2)									
1823120022	2)									
1823120023	2)									
1823120024	2)									
1823120025	2)									
5236000092	2)									

1) Max.

2) Scope of delivery: pivot pins incl. circlips

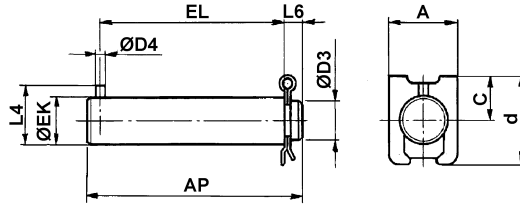
Piston rod cylinders → Standard cylinders

ISO 15552, Series ICL
Accessories

AA6 non-rotating axle for AB6 clevis mountings



00112286



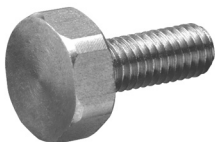
D300_018

Scope of delivery: bolt incl. locking ring or locking washer

Part No.	Piston Ø	A	Ø d	C	Ø D3 -0,1	Ø D4 H12	Ø EK h9	EL +0,2	L6	AP	L4 -0,4
523000082	32	18	22	10	10	3	10	32.5	4.5	41	14
523100082	40	22	26	12	12	4	12	38	5	48	16
523200082	50	28	34.5	16	16	4	16	43	6	54	20
523300082	63	28	34.5	16	16	4	16	49	6	60	20
523400082	80	28	34.5	16	16	4	20	63	6	74	24
523500082	100	28	34.5	16	16	4	20	73	6	84	24
523600082	125	40.5	40.5	20.25	30	6	30	94	5	106	36

Part No.	Ø TD e9	Material	Standardiza- tion								
523000082	10	Stainless steel	ISO 15552								
523100082	12	Stainless steel	-								
523200082	16	Stainless steel	-								
523300082	16	Stainless steel	-								
523400082	20	Stainless steel	-								
523500082	20	Stainless steel	ISO 15552								
523600082	30	Stainless steel	ISO 15552								

Blanking screw



00136708

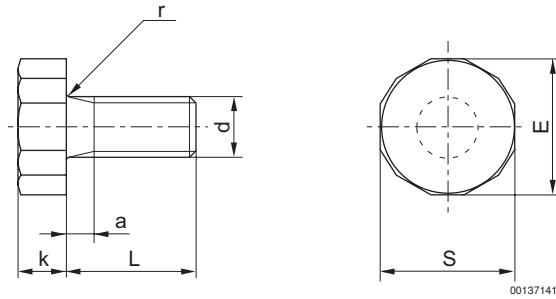
Materials:
Screw

Stainless steel, corrosion-resistant

Piston rod cylinders → Standard cylinders

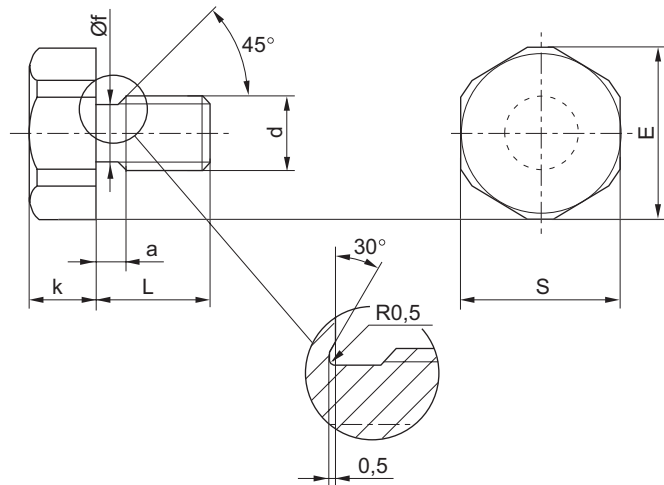
ISO 15552, Series ICL
Accessories

Dimensions



Part No.	a	d	E	k	L	S	r	Delivery quantity [Piece]	Type / version					
R402003749	3	M6	14	5.3	16	13	0.7	4	HYGIENE BOLT ICL32/40					
R402003750	3	M8	18	6.4	17	16	0.7	4	HYGIENE BOLT ICL50/63					

Dimensions



Part No.	a	d	E	Øf	k	L	S	Delivery quantity [Piece]	Type / version					
R402003751	4	M10	24	7.9	8.8	15	21	4	HYGIENE BOLT ICL80/100					
R402003752	4	M12	30	9.5	11.5	18	27	4	HYGIENE BOLT ICL125					

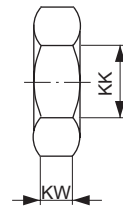
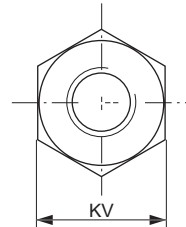
Piston rod cylinders → Standard cylinders

ISO 1552, Series ICL
Accessories

Piston rod nut MR9



00105168



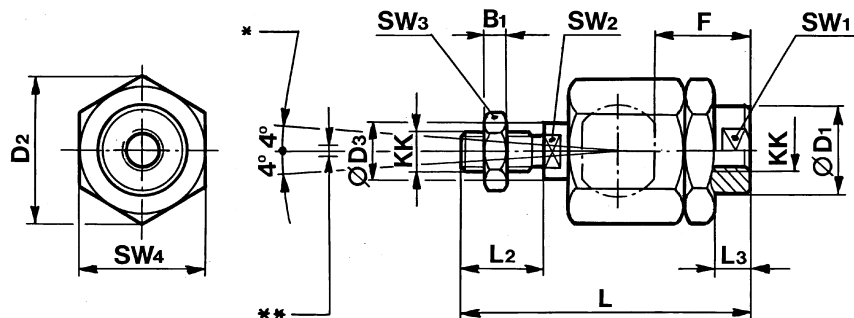
00105192

Part No.	KK	KV	KW	Material	Weight [kg]				
8103190464	M10x1,25	16	5	Stainless steel	0.008				
3590304000	M12x1,25	18	6	Stainless steel	0.02				
3590305000	M16x1,5	24	8	Stainless steel	0.03				
3590308000	M20x1,5	30	10	Stainless steel	0.05				
2990600312	M27x2	42	12	Stainless steel, acid-proof	0.07				

Flexible spherical coupling, PM5



00105169



D300_029

- * angle equalization
 ** Radial joint from 0,5 - 2 mm

Part No.	KK	B1	Ø D1	D2	Ø D3	F	L ±2	L2	L3 ±1	SW1	SW2	SW3
1826409002	M10x1,25	6	21.5	34	14	23	73	20	7.5	19	12	17
1826409003	M12x1,25	7	21.5	34	14	28	77	24	13	19	12	19
1826409004	M16x1,5	8	33.5	47	22	32	108	32	9	30	19	24
1826409005	M20x1,5	10	33.5	47	22	42	122	40	19	30	19	30
1826409006	M27x2	13.5	62	62	28	48	147	54	14	32	24	41

Part No.	SW4	Material	Surface	Weight [kg]					
1826409002	30	Steel	galvanized	0.21					
1826409003	30	Steel	galvanized	0.21					
1826409004	41	Steel	galvanized	0.65					
1826409005	41	Steel	galvanized	0.68					
1826409006	55	Steel	galvanized	1.7					

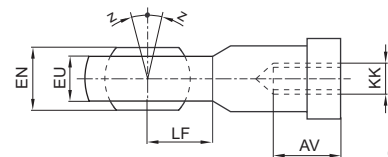
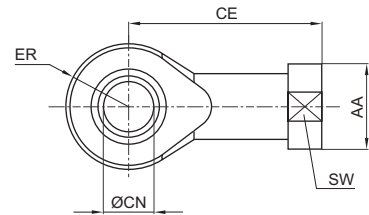
Piston rod cylinders → Standard cylinders

ISO 15552, Series ICL
Accessories

Ball eye rod end AP6



00105172



00126602

Part No.	KK	AA	AV min.	CE	Ø CN H7	EN -0,1	ER	EU max.	LF	SW	Z [°] max.
1822124002	M8	16	12	36	8	12	12	9.5	12	14	4
1822124003	M10x1,25	19	15	43	10	14	14	11.5	14	17	4
1822124004	M12x1,25	22	18	50	12	16	16	12.5	16	19	4
1822124005	M16x1,5	27	24	64	16	21	21	15.5	21	22	4
1822124006	M20x1,5	34	30	77	20	25	25	18.5	25	30	4
1822124013	M27x2	50	45	110	30	37	35	27	35	41	4
8958209032	M10x1,25	19	15	43	10	14	14	10.5	14	17	6.5
8958209042	M12x1,25	22	18	50	12	16	16	12	16	19	6.5
8958209052	M16x1,5	27	24	64	16	21	21	15	21	22	7.5
8958209062	M20x1,5	34	30	77	20	25	25	18	25	30	7.5

Part No.	Material	Surface	Weight [kg]							
1822124002	Steel	galvanized	0.05							
1822124003	Steel	galvanized	0.07							
1822124004	Steel	galvanized	0.12							
1822124005	Steel	galvanized	0.21							
1822124006	Steel	galvanized	0.38							
1822124013	Steel	galvanized	1.17							
8958209032	Stainless steel	-	0.09							
8958209042	Stainless steel	-	0.12							
8958209052	Stainless steel	-	0.23							
8958209062	Stainless steel	-	0.41							

Piston rod cylinders → Standard cylinders

ISO 15552, Series ICL
Accessories

AP2 rod clevis
Steel, galvanized



00105171

Fig.1

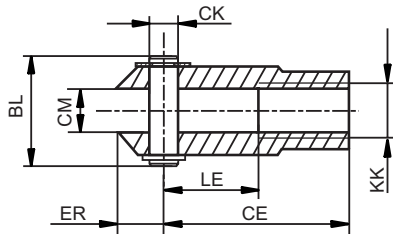
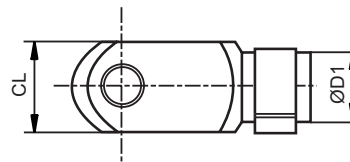
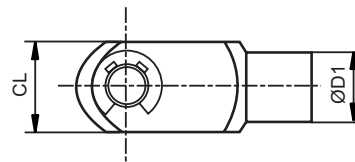
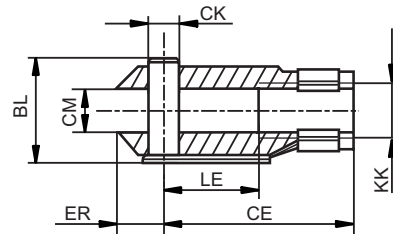


Fig. 2



00126410

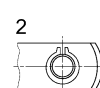
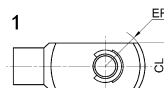
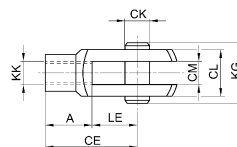
Part No.	KK	Fig.	BL	CE	ØCK e11	CL	CM	ØD1	ER	LE
1822122024	M10x1,25	2	26	40	10	20	10	18	12	20
1822122025	M12x1,25	2	31	48	12	24	12	20	14	24
1822122005	M16x1,5	2	39	64	16	32	16	26	19	32
1822122004	M20x1,5	2	50	80	20	40	20	34	20	40
1827001493	M27x2	1	68	110	30	55	30	48	38	54

Part No.	Material	Surface	Weight [kg]						
1822122024	Steel	galvanized	0.1						
1822122025	Steel	galvanized	0.16						
1822122005	Steel	galvanized	0.4						
1822122004	Steel	galvanized	0.7						
1827001493	Steel	galvanized	2						

Rod clevis AP2
► Stainless steel



P300_006



00126601

Piston rod cylinders → Standard cylinders

ISO 15552, Series ICL
 Accessories

Part No.	KK	Fig.	A	CE	CK e8	CL	CM B12	ER	KG	LE
3590502000	M10x1,25	1	20	40	10	20	10	12	26	20
3590504000	M12x1,25	1	24	48	12	24	12	14	31	24
3590505000	M16x1,5	1	32	64	16	32	16	19	39	32
3590508000	M20x1,5	1	40	80	20	40	20	20	49	40

Part No.	Material	Weight [kg]								
3590502000	Stainless steel	0.1								
3590504000	Stainless steel	0.16								
3590505000	Stainless steel	0.4								
3590508000	Stainless steel	0.7								

Piston rod cylinders → Standard cylinders

ISO 15552, Series ICL
Accessories

Sensor, Series ST6

▶ 6 mm groove ▶ with cable ▶ without wire end ferrule, tin-plated



00112027_2

Ambient temperature min./max.	-25 °C / +70 °C
Protection class	IP 69K
Switching point precision [mm]	±0,1
Switching capacity	3 W / 3 VA
Vibration resistance	10 - 55 Hz, 1 mm
Shock resistance	30 g / 11 ms

Materials:	
Housing	Polyamide
Cable	Polyurethane

	Type of contact	Cable length L	DC operating voltage min./max.	Operational voltage AC min./max.	DC switching current, max.	AC switching current, max.	Part No.
		[m]	[V]	[V]	[A]	[A]	
	Reed	3	10 / 30	10 / 30	0,13	0,13	0830100629
		5					0830100630
		10					R412004575
	electronic PNP	3	10 / 30	-	0.1	-	0830100631
		5					0830100632
		10					R412004576
	electronic NPN	3	10 / 30	-	0.1	-	0830100633
		5					0830100634

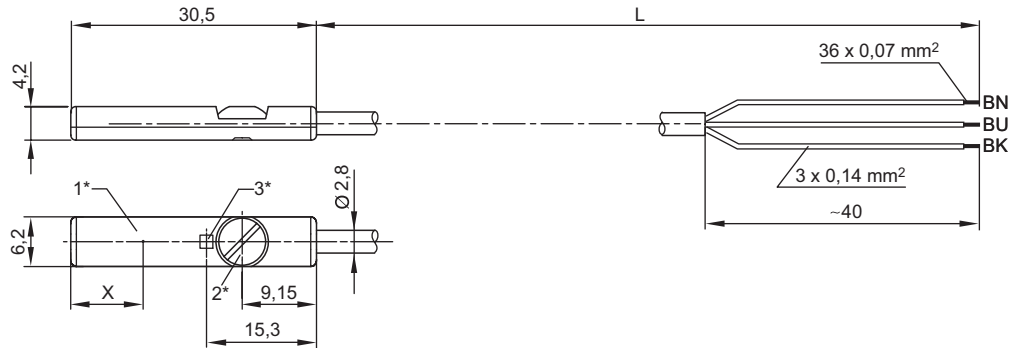
Part No.	Voltage drop U at I _{max}	Protective resistor for reed	Max. switching frequency	Operating current, not switched	Operating current, switched	LED	Note
	[V]	[Ω]	[kHz]	[mA]	[mA]		
0830100629 0830100630 R412004575	I*Rs	15	< 0,3	-	< 10	Yellow	1)
0830100631 0830100632 R412004576	≤ 2,5	-	< 1,0	< 20	< 30	Yellow	2)
0830100633 0830100634	≤ 2,5	-	< 1,0	< 20	< 30	Yellow	2)

1) Protected against polarity reversal
 2) short circuit resistant; Protected against polarity reversal
 interfaces: without wire end ferrule, tin-plated
 UL (Underwriters Laboratories)

Piston rod cylinders → Standard cylinders

ISO 1552, Series ICL
Accessories

Dimensions



00111942_b

1* = switching point 2* = clamping screw 3* = LED
L = cable length
BN = brown, BK = black, BU = blue
X = electronic: 6 mm, Reed: 10 mm

Sensor, Series ST6

► 6 mm groove ► with cable ► Plug, M8, 3-pin, with knurled screw



00112027_5

Certificates	UL (Underwriters Laboratories)
Ambient temperature min./max.	-25°C / +70°C
Protection class	IP 65, IP 67
Switching point precision [mm]	±0,1
Switching capacity	3 W / 3 VA
LED status display	Yellow
Vibration resistance	10 - 55 Hz, 1 mm
Shock resistance	30 g / 11 ms

Materials:
Housing Polyamide

	Type of contact	Cable length L	DC operating voltage min./max.	Operational voltage AC min./max.	DC switching current, max.	AC switching current, max.	Part No.
		[m]	[V]	[V]	[A]	[A]	
	Reed	0.3	10 / 30	10 / 30	0,13	0,13	0830100434
		0.5					0830100436
	electronic PNP	0.3	10 / 30	-	0.1	-	0830100435
		0.5					0830100437
		0.3					R412004762
	electronic NPN	0.3	10 / 30	-	0.1	-	0830100431

Piston rod cylinders → Standard cylinders

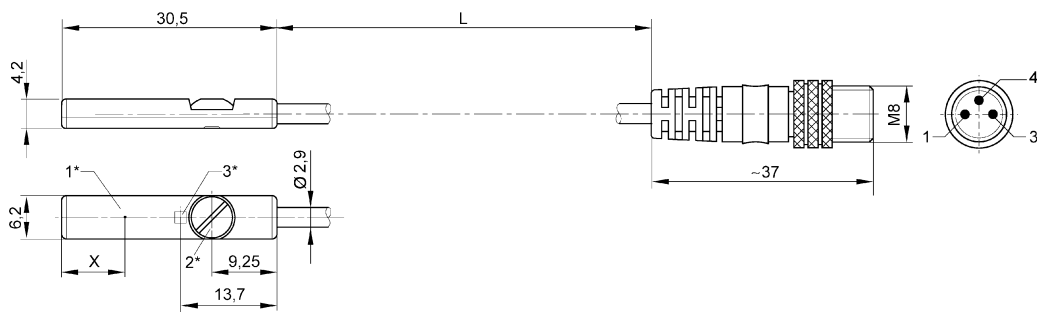
ISO 15552, Series ICL

Accessories

Part No.	Voltage drop U at I _{max}	Protective resistor for reed	Max. switch- ing frequency	Operating current, not switched	Operating cur- rent, switched	Material Cable	Note
	[V]	[Ω]	[kHz]	[mA]	[mA]		
0830100434 0830100436	I*Rs	15	< 0,3	-	< 10	Polyurethane	1)
0830100435 0830100437 R412004762	≤ 2,5	-	< 1,0	< 20	< 30	Polyurethane Polyurethane Polyvinyl chloride	2)
0830100431	≤ 2,5	-	< 1,0	< 20	< 30	Polyurethane	2)

1) Protected against polarity reversal
2) short circuit resistant; Protected against polarity reversal
interfaces: Plug; M8; 3-pin; with knurled screw

Dimensions



00111942_d

1* = switching point 2* = clamping screw 3* = LED

L = cable length

X = electronic: 6 mm, Reed: 10 mm

Pin assignment: 1 = (+), 3 = (-), 4 = (OUT), EN 60947-5-2:1998

Sensor, Series ST6

► 6 mm groove ► with cable ► Plug, M8, 3-pin



00112027_3

Certificates

Ambient temperature min./max.

Protection class

Switching point precision [mm]

Switching capacity

LED status display

Vibration resistance

Shock resistance

Materials:

Housing

Cable

UL (Underwriters Laboratories)

-25°C / +70°C

IP 65, IP 67

±0,1

3 W / 3 VA

Yellow

10 - 55 Hz, 1 mm

30 g / 11 ms

Polyamide

Polyurethane

Piston rod cylinders → Standard cylinders

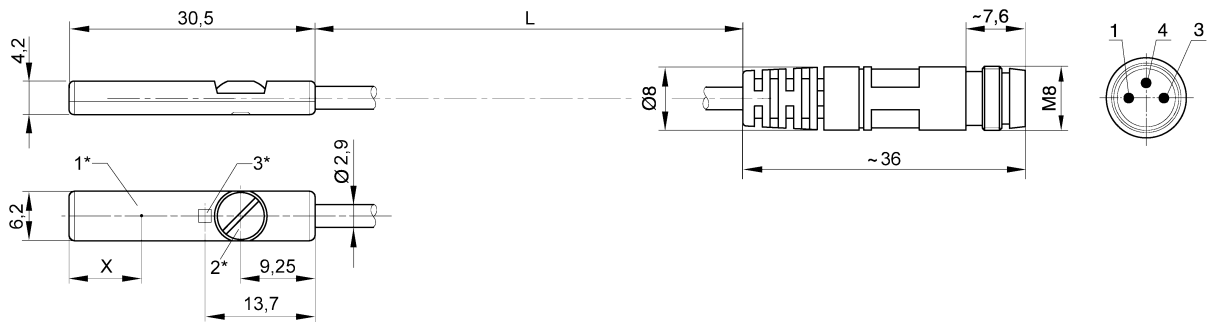
ISO 1552, Series ICL
Accessories

	Type of contact	Cable length L	DC operating voltage min./max.	Operational voltage AC min./max.	DC switching current, max.	AC switching current, max.	Part No.
		[m]	[V]	[V]	[A]	[A]	
	Reed	0.3	10 / 30	10 / 30	0,13	0,13	0830100488
	electronic PNP	0.3	10 / 30	-	0.1	-	0830100489
	electronic NPN	0.3	10 / 30	-	0.1	-	0830100430

Part No.	Voltage drop U at I _{max}	Protective resistor for reed	Max. switching frequency	Operating current, not switched	Operating current, switched	Note
	[V]	[Ω]	[kHz]	[mA]	[mA]	
0830100488	I*Rs	15	< 0,3	-	< 10	1)
0830100489	≤ 2,5	-	< 1,0	< 20	< 30	2)
0830100430	≤ 2,5	-	< 1,0	< 20	< 30	2)

1) Protected against polarity reversal
 2) short circuit resistant; Protected against polarity reversal
 interfaces: Plug; M8; 3-pin

Dimensions



1* = switching point 2* = clamping screw 3* = LED
 L = cable length
 X = electronic: 6 mm, Reed: 10 mm
 Pin assignment: 1 = (+), 3 = (-), 4 = (OUT), EN 60947-5-2:1998

00111942_a

Piston rod cylinders → Standard cylinders

ISO 1552, Series ICL
Accessories

Sensor, Series ST6

▶ 6 mm groove ▶ with cable ▶ Plug, M12, 3-pin, with knurled screw



00112027_4

Certificates	UL (Underwriters Laboratories)
Ambient temperature min./max.	-25 °C / +70 °C
Protection class	IP 65, IP 67
Switching point precision [mm]	±0,1
Switching capacity	3 W / 3 VA
LED status display	Yellow
Vibration resistance	10 - 55 Hz, 1 mm
Shock resistance	30 g / 11 ms
Materials:	
Housing	Polyamide
Cable	Polyurethane

	Type of contact	Cable length L	DC operating voltage min./max.	Operational voltage AC min./max.	DC switching current, max.	AC switching current, max.	Part No.
		[m]	[V]	[V]	[A]	[A]	
	Reed	0.3	10 / 30	10 / 30	0,13	0,13	0830100432
	electronic PNP	0.3	10 / 30	-	0.1	-	0830100433

Part No.	Voltage drop U at I _{max}	Protective resistor for reed	Max. switching frequency	Operating current, not switched	Operating current, switched	Note
	[V]	[Ω]	[kHz]	[mA]	[mA]	
0830100432	I*Rs	15	< 0,3	-	< 10	1)
0830100433	≤ 2,5	-	< 1,0	< 20	< 30	2)

1) Protected against polarity reversal

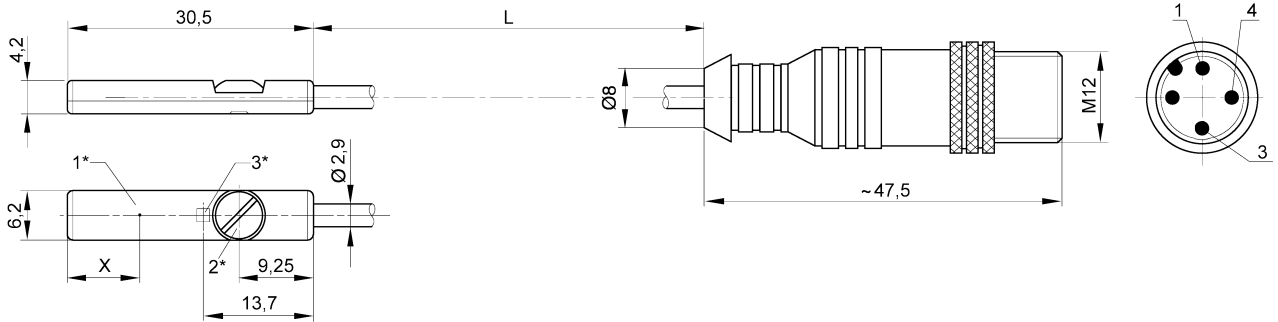
2) short circuit resistant; Protected against polarity reversal

interfaces: Plug; M12; 3-pin; with knurled screw

Piston rod cylinders → Standard cylinders

ISO 1552, Series ICL
Accessories

Dimensions



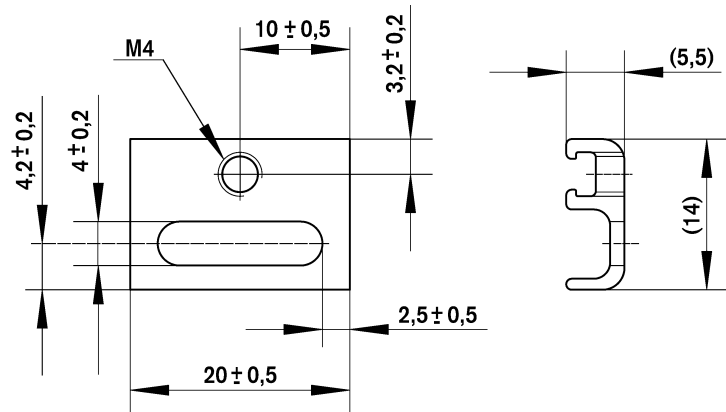
00111942_c

1* = switching point 2* = clamping screw 3* = LED
 L = cable length
 X = PNP: 6 mm, reed: 10 mm
 Pin assignment: 1 = (+), 3 = (-), 4 = (OUT), EN 60947-5-2:1998

Sensor mounting
► for Sensor Series ST6



00129036



00129037

Part No.	Material	Weight [kg]							
R402000040	Aluminum	0.006							
Scope of delivery: Incl. mounting screws									

Piston rod cylinders → Standard cylinders

ISO 15552, Series ICL

Accessories

Connecting cable, Series CN2

► Socket, M8, 3-pin ► open cable ends, 3-pin



00107009

Ambient temperature min./max.

-40 °C / +85 °C

Protection class

IP 65

Materials:

Cable sheath

Polyurethane

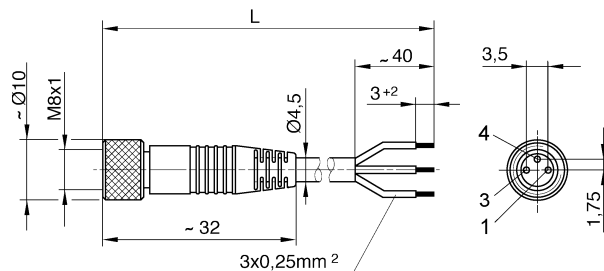
Technical Remarks

- The specified protection class is valid only in assembled and tested state.

	Electrical interface		Max. current [A]	Number of wires	Wire cross-section [mm ²]	Cable exit	Part No.
	[Port 1]	[Port 2]					
	Socket, M8, 3-pin	open cable ends, 3-pin	4	3	0.24	straight 180°	1834484166
						straight 180°	1834484168
						straight 180°	1834484247
						angled 90°	1834484167
						angled 90°	1834484169
						angled 90°	1834484248
						angled 90°	1834484249

Part No.	Cable length L		Weight [kg]	Fig.
	[m]	[kg]		
1834484166	3	0.091	Fig. 1	
1834484168	5	0.145	Fig. 1	
1834484247	10	0.33	Fig. 1	
1834484167	3	0.092	Fig. 2	
1834484169	5	0.141	Fig. 2	
1834484248	10	0.276	Fig. 2	
1834484249	15	0.431	Fig. 2	

Fig. 1



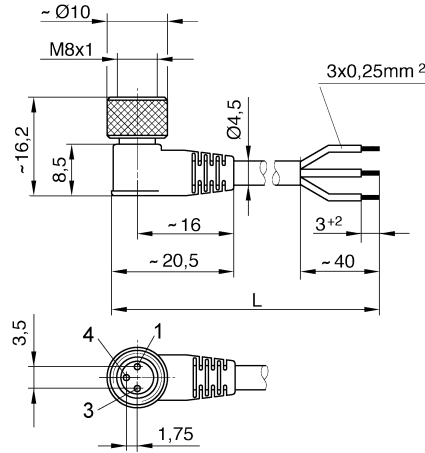
00105612_a

(1) BN=brown (3) BU=blue (4) BK=black
L = length

Piston rod cylinders → Standard cylinders

ISO 15552, Series ICL
Accessories

Fig. 2



00105612_b

(1) BN=brown (3) BU=blue (4) BK=black
L = length

M8x1 socket (female), Series CN2

► Socket, M8x1, 3-pin



00136663

Ambient temperature min./max.
Protection class

-40°C / +85°C
IP 65

Materials:
Housing

Polyamide

Technical Remarks

- The specified protection class is valid only in assembled and tested state.

	Operating voltage		Max. current [A]	Contact assign- ment	Cable exit	suitable cable-Ø min./max [mm]	Part No.
	DC	AC					
	[V]	[V]					
	75	60	4	3	straight 180°	-- / 4.5	1834484173
					angled 90°		1834484174
Part No.	number of plug options 1		Housing color	Weight	Fig.		
				[kg]			
1834484173 1834484174	1 position		Black	0.008		Fig. 1 Fig. 2	

Piston rod cylinders → Standard cylinders

ISO 15552, Series ICL
 Accessories

Fig. 1

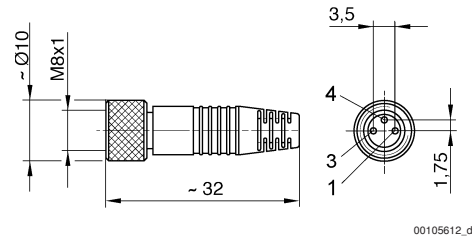
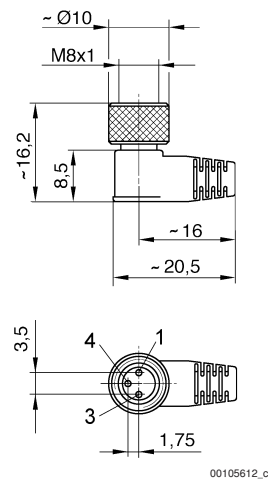


Fig. 2



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