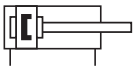
RT/57200/M, RM/57200/M, Roundline cylinder
Magnetic piston, double acting

— Ø 8 ... 63 mm
— Saves 20% space over the basic length of a corresponding ISO/ VDMA cylinder
— Low friction, long life seals
— High strength, double crimped end cap design
— Standard magnetic piston for full control system versatility





Technical features

Medium:
Compressed air, filtered, lubricated or non-lubricated
Operation:
Double acting with buffer cushioning

Operating pressure:
1 ... 10 bar (14 ... 145 psi)
Cylinder diameters:
8, 10, 12, 16, 20, 25, 32, 40, 50, 63 mm
Strokes:
See page below
Non-standard strokes:
up to 500 mm max. on request

Operating temperature:
-5 ... +80°C max. (+23 ... +176°F)
Air supply must be dry enough to avoid ice formation at temperatures below +2°C (+35°F).

Materials:
Piston rod: stainless steel (8 ... 16 mm bore austenitic, 20 ... 63 mm bore martensitic)
End covers: aluminium
Barrel: stainless steel (austenitic)
Wiper: PUR
Seals and 'O'-rings: NBR

Technical data

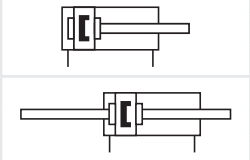
Cylinder Ø (mm)	8	10	12	16	20	25	32	40	50	63
Port size RT/572** (RM/572**)	M3 (M3)	M5 (M5)	M5 (M5)	M5 (M5)	Rc 1/8 (M6)	Rc 1/8 (M6)	Rc 1/8 (G 1/8)	Rc 1/8 (G 1/8)	Rc 1/4 (G 1/4)	Rc 1/4 (G 1/4)
Piston rod Ø (mm)	3	4	4	6	8	10	12	14	16	20
Piston rod thread	M3	M4	M4	M6	M8	M10 x 1,25	M10 x 1,25	M12 x 1,25	M 12 x 1,25	M 16 x 1,5
Theoretical thrusts at 6 bar outstroke (N)	30	46,8	67,8	120	188	294	482	754	1178	1870
Theoretical thrusts at 6 bar instroke (N)	25,9	39,6	60	103	158	247	414	661	1057	1680
Air consumption at 6 bar outstroke (l/cm)	0,004	0,005	0,008	0,014	0,022	0,035	0,056	0,087	0,137	0,218
Air consumption at 6 bar instroke (l/cm)	0,003	0,004	0,006	0,013	0,019	0,02	0,048	0,074	0,114	0,195

Standard strokes

Cylinder Ø (mm)	Stroke length (mm) 10	25	40	50	80	100	125	160	200	250	320
8	•	•	•	•	•	•	–	–	–	–	–
10	•	•	•	•	•	•	–	–	–	–	–
12	•	•	•	•	•	•	•	•	•	–	–
16	•	•	•	•	•	•	•	•	•	–	–
20	•	•	•	•	•	•	•	•	•	•	•
25	•	•	•	•	•	•	•	•	•	•	•
32	•	•	•	•	•	•	•	•	•	•	•
40	•	•	•	•	•	•	•	•	•	•	•
50	•	•	•	•	•	•	•	•	•	•	•
63	•	•	•	•	•	•	•	•	•	•	•

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Cylinder variants

Symbol	Model magnetic piston	Description	Dimensions Page
	R./57200/M	Standard cylinder, Ø 8 to 40 mm, integral eye mounting, Ø 50 and 63 mm	4 & 5
	R./57200/MC	Cylinder with central rear port	5
	R./57200/MF	Cylinder with flat rear cover	5
	R./57200/JM	Cylinder with double ended piston rod (Ø 16 to 63 mm)	4

Option selector

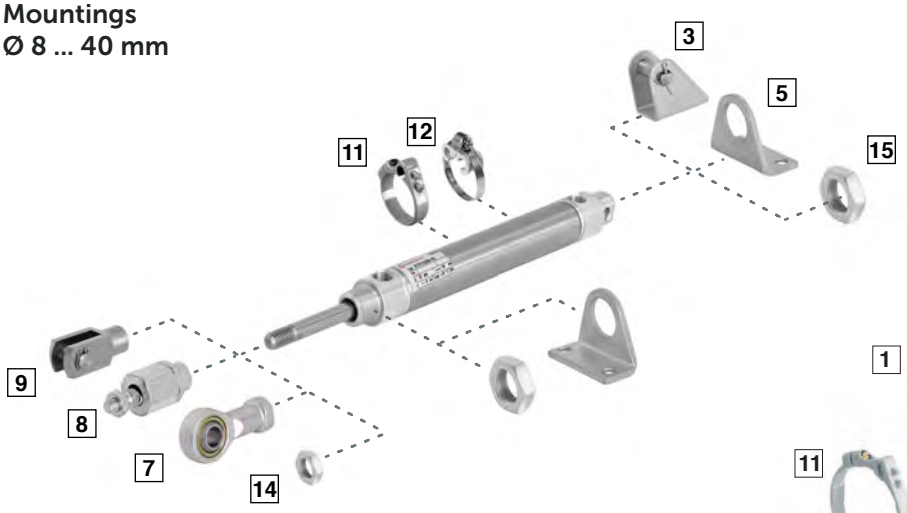
R★/572★★/★★/★★★

Port size	Cylinder Ø (mm)	Substitute
M3	8	T
M5	10	T
M5	12	T
M5	16	T
M6	20	M
Rc1/8	20	T
M6	25	M
Rc1/8	25	T
G1/8	32	M
Rc1/8	32	T
G1/8	40	M
Rc1/8	40	T
G 1/4	50	M
Rc 1/4	50	T
G 1/4	63	M
Rc 1/4	63	T

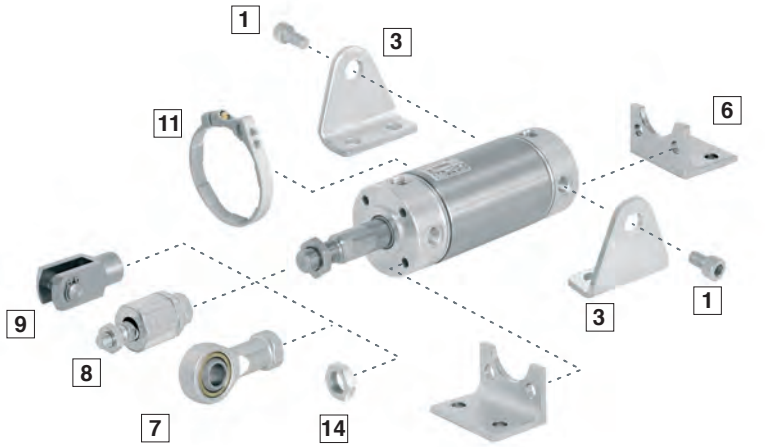
Stroke (mm)	
500 max.	
Cylinder variants	**Substitute**
Magnetic piston	**M**
Magnetic piston, central rear port, flat end	**MC**
Magnetic piston, side port, flat end	**MF**
Magnetic piston, double ended piston rod	**JM**
Cylinder Ø (mm)	**Substitute**
8	**08**
10	**10**
12	**12**
16	**16**
20	**20**
25	**25**
32	**32**
40	**40**
50	**50**
63	**63**

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Mountings
Ø 8 ... 40 mm



Ø 50 and 63 mm



Cyl. Ø	AK  8 Page 6	C  5 Page 6	F  9 Page 6	H  1 Page 6	L  3 Page 6	N  15 Page 7
8	–	M/P71273/1	QM/57008/25	–	QM/57008/24	M/P71364
10	QM/8010/38	M/P71273/2	QM/8010/25	–	QM/947	M/P71364
12	QM/8010/38	M/P71273/2	QM/8010/25	–	QM/947	M/P71364
16	QM/8012/38	M/P19369	QM/57016/25	–	QM/946	M/P1501/90
20	QM/8020/38	M/P19389	QM/57020/25	–	QM/8012/24	M/P13834
25	QM/8025/38	M/P40381	QM/57025/25	–	QM/57025/24	M/P13607
32	QM/8025/38	M/P19406	QM/57032/25	–	QM/8020/24	M/P13615
40	QM/8040/38	M/P71273/3	QM/57040/25	–	QM/57040/24	M/P29254
50	QM/8040/38	QM/57050/21	QM/57040/25	QM/55240/28	QM/57050/24	–
63	QM/8050/38	QM/57063/21	QM/57063/25	QM/55250/28	QM/57063/24	–

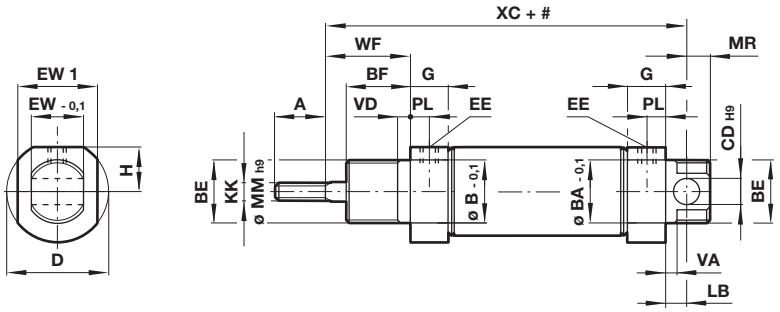
Cyl. Ø	N2  14 Page 7	UF  7 Page 7	Switch mounting brackets >15 mm stroke  11 Page 7	<15 mm stroke  12 Page 7	Magnetically operated switches  Page 8 ... 11
8	M/P1500/111	–	–	–	
10	M/P1501/80	QM/8010/32	QM/33/010/22	QM/33/010/23	
12	M/P1501/80	QM/8010/32	QM/33/012/22	QM/33/016/23	
16	M/P1501/79	QM/8012/32	QM/33/016/22	QM/33/016/23	
20	M/P1501/60	QM/8020/32	QM/33/020/22	QM/33/020/23	
25	M/P1501/89	QM/8025/32	QM/33/025/22	QM/33/025/23	
32	M/P1501/89	QM/8025/32	QM/33/032/22	–	
40	M/P1501/90	QM/8040/32	QM/33/040/22	–	
50	M/P1501/90	QM/8040/32	QM/33/050/22	–	
63	M/P1501/91	QM/8050/32	QM/33/063/22	–	

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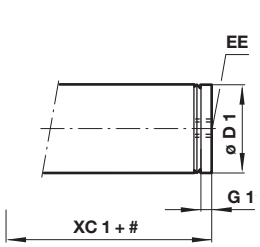
Basic dimensions

Dimensions in mm
Projection/First angle

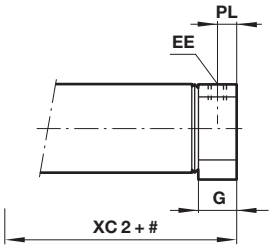
Ø 8 ... 12 mm - RT/572../M



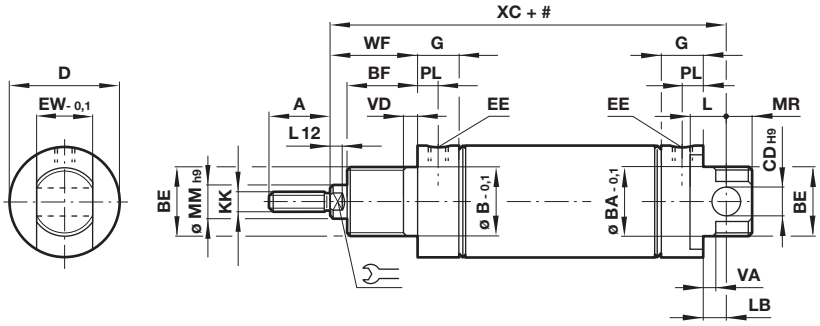
RT/572../MC



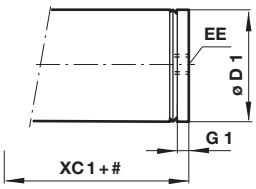
RT/572../MF



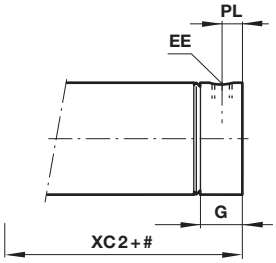
Ø 16 ... 40 mm - R./572../M



R./572../MC



RT/572../MF



Stroke

Ø	A	Ø B/Ø BA	BE	BF	Ø CD H9	Ø D	Ø D1	RT/5... EE	RM/5... EE	EW -0,1	EW1	G	G1	H	KK	L
8	8	10	M10 x 1	7,5	3	12	9,5	M3	M3	6	10	7,5	3	5	M3	–
10	9	10	M10 x 1	8	4	15	11,5	M5	M5	8	12,5	9,5	4,5	6,5	M4	–
12	9	10	M10 x 1	8	4	15	13	M5	M5	8	–	9,5	4,5	6,5	M4	–
16	12	12	M12 x 1,25	10	5	17,5	17,5	M5	M5	10	–	11,5	4	–	M6	–
20	14	16	M16 x 1,5	12	6	22	21,5	Rc 1/8	M6	12	–	15,5	8	–	M8	–
25	16	18	M18 x 1,5	12	8	26,5	26,5	Rc 1/8	M6	14	–	15,5	8	–	M10 x 1,25	–
32	22	22	M22 x 1,5	15	8	33,5	33,5	Rc 1/8	G 1/8	16	–	17,5	5,5	–	M10 x 1,25	12
40	23	30	M30 x 1,5	15	10	41,5	41,5	Rc 1/8	G 1/8	20	–	18	5,5	–	M12 x 1,25	14

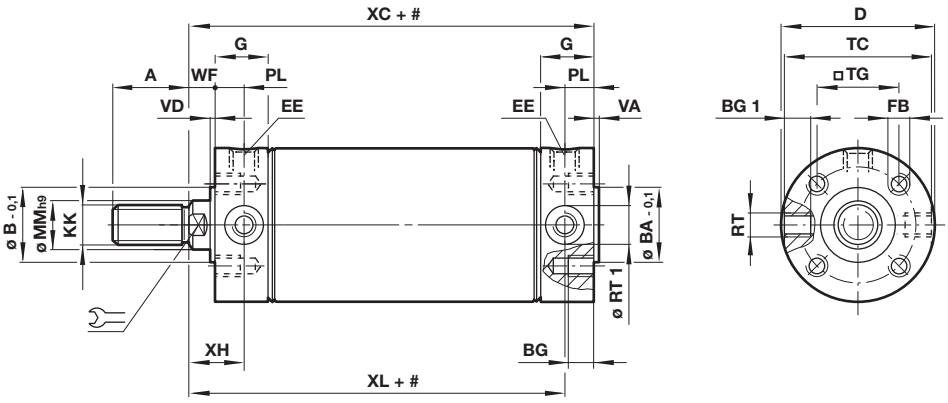
Ø	LB	L12	Ø MM h9	MR	PL	⌯	VA/VD	WF	XC	XC1	XC2	kg at 0 mm	kg per 25 mm	Model
8	4,5	–	3	3	4	–	1,5	8,5	48	39	43,5	0,02	0,02	RT/57208/M/*
10	5	–	4	4	5,5	–	1,5	10	54	44	49	0,02	0,03	RT/57210/M/*
12	5	–	4	4	5,5	–	1,5	10	54	44	49	0,02	0,03	RT/57212/M/*
16	7	5	6	5	5,5	5	2	13,5	64,5	50	57,5	0,04	0,05	RT/57216/M/*
20	7	5	8	6	9	7	3	15,5	75,5	61	68,5	0,08	0,07	R./57220/M/*
25	9	5	10	8	9	9	3	16,5	78,5	62	69,5	0,12	0,11	R./57225/M/*
32	7	5	12	8	9	10	3	23	93	74	86	0,21	0,16	R./57232/M/*
40	5	6	14	10	10	12	3	24	96	78,5	91	0,33	0,20	R./57240/M/*

* Please insert standard stroke length.

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Ø 50 and 63 mm - R./57200/M

Dimensions in mm
Projection/First angle

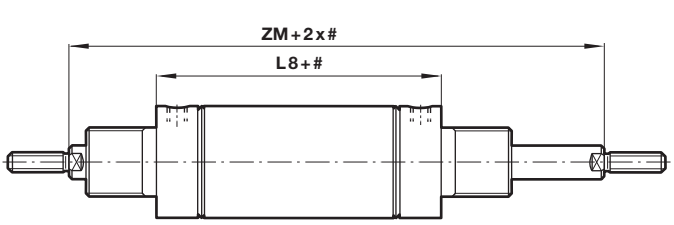


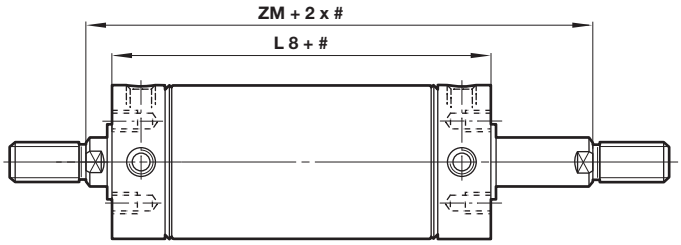
Ø	A	Ø B/BA -0,1	BG	BG 1	Ø D	RT/57... EE	RM/57... EE	FB	G	KK	Ø MM h9	PL	Model
50	23	28	12	8	52,5	Rc 1/4	G 1/4	M 6	22	M 12 x 1,25	16	13	R./57250/M/*
63	30	35	12	9,5	65,5	Rc 1/4	G 1/4	M 8	22	M 16 x 1,5	20	13	R./57263/M/*

Ø	RT	RT 1	SW	TG	TC	VA/VD	WF	XC	XH	XL	kg at 0 mm	kg per 100 mm	Model
50	M 10 x 1	13	13	28,5	49	2	13	97	26	84	0,39	0,31	R./57250/M/*
63	M 12 x 1,5	15	17	35,5	62	2	13	99	26	86	0,89	0,44	R./57263/M/*

* Please insert standard stroke length.

Ø 16 ... 63 mm - R./57200/JM





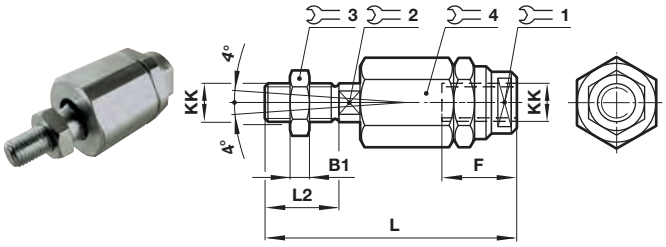
Stroke

Ø	L8	ZM	Model
16	44	71	R./57216/JM/*
20	53	84	R./57220/JM/*
25	53	86	R./57225/JM/*
32	63	109	R./57232/JM/*
40	67	115	R./57240/JM/*
50	84	110	R./57250/JM/*
63	86	112	R./57263/JM/*

* Please insert standard stroke length.

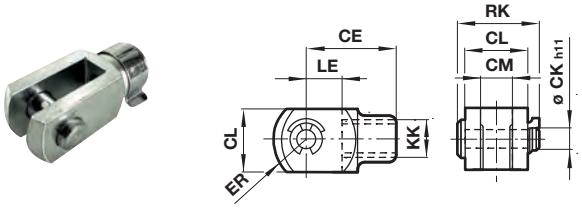
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Mountings
Piston rod swivel AK
Conforms to DIN ISO 8139



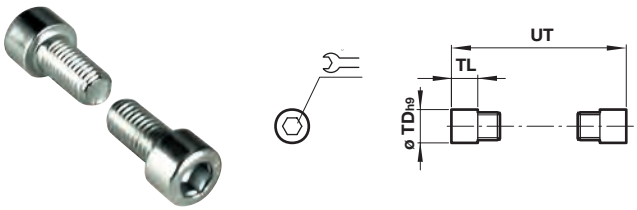
Ø	KK	B1	F	L	L2	1	2	3	4	kg	Model (AK)
10/12	M 4	2	12,5	33	8	11	3,2	7	11	0,01	QM/8010/38
16	M 6	3	14	39	12	7	5	10	13	0,02	QM/8012/38
20	M 8	4	18	55	16	10	7	13	17	0,05	QM/8020/38
25/32	M 10x1,25	5	26	73	20	19	12	17	30	0,20	QM/8025/38
40/50	M 12x1,25	6	26	77	24	19	12	19	30	0,20	QM/8040/38
63	M 16x1,5	8	34	106	32	30	19	24	42	0,65	QM/8050/38

Piston rod clevis F
Conforms to DIN ISO 8140



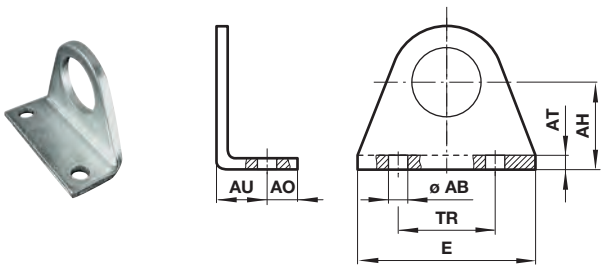
Ø	KK	CE	Ø CK h11	CL	CM	ER	LE	RK	kg	Model (F)
8	M3	11	3	6	3	4,5	5	10,5	0,01	QM/57008/25
10/12	M4	16	4	8	4	6,5	8	11,5	0,01	QM/8010/25
16	M6	20	5	10	5	8	10	14,5	0,01	QM/57016/25
20	M8	24	6	12	6	9,5	12	17,5	0,02	QM/57020/25
25	M10x1,25	26	8	14	7	11,5	12	20,5	0,04	QM/57025/25
32	M10x1,25	32	8	16	8	13	16	22,5	0,05	QM/57032/25
40/50	M12x1,25	40	10	20	10	16	20	29	0,09	QM/57040/25
63	M 16x1,5	56	14	27	14	21	28	36,5	0,20	QM/57063/25

Central trunnion H



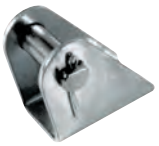
Ø	Ø TD h9	TL	UT		kg	Model (H)
50	12	9,5	63	6	0,03	QM/55240/28
63	14	11	76	6	0,05	QM/55250/28

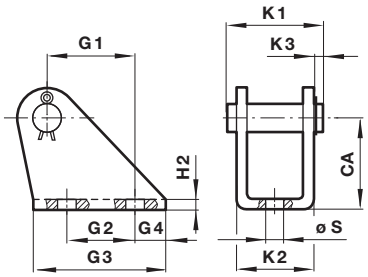
Foot C
Conforms to DIN ISO 6432



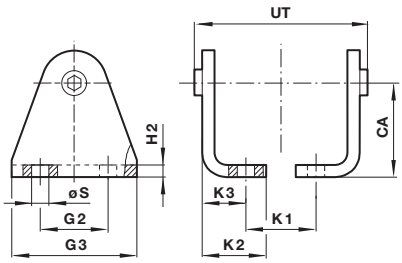
Ø	Ø AB	AH	AO	AT	AU	E	TR	kg	Model (C)
8	3,8	10	3,5	1,5	7,5	25	18	0,01	M/P71273/1
10/12	5	12	4,5	1,5	7,5	30	20	0,01	M/P71273/2
16	4,5	16	6	2	10	35	25	0,02	M/P19369
20	5,5	20	6	3	13	43	32	0,03	M/P19389
25	6,6	22	8	3	12,5	49	38	0,04	M/P40381
32	6,6	25	7,5	4	16	53	40	0,06	M/P19406
40	7	28	7	4	16	66	52	0,08	M/P71273
50	9	40	10	4	17	52	36	0,18	QM/57050/21
63	9	47	10	5	19	61	45	0,28	QM/57063/21

Rear hinge L
for Ø 8 ... 40 mm





Ø 50 ... 63 mm

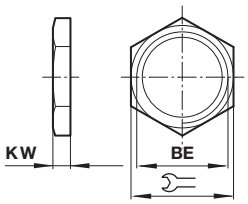


Ø	CA	G 1	G 2	G 3	G 4		H2	K 1	K 2	K 3		Ø S	UT	kg	Model (L)
8	10	9	7	14	3,5		1	–	8	–		3,5	–	0,01	QM/57008/24
10/12	12	6,5	–	15	6		1	13,5	10,5	2		4,8	–	0,01	QM/947
16	16	13	10	22	6		1,5	–	12,5	–		4,8	–	0,02	QM/946
20	20	18,5	15	30	8		1,5	20	15	3		5,5	–	0,02	QM/8012/24
25	22	20	15	33	9		2	–	18	–		6,6	–	0,04	QM/57025/24
32	25	20	15	35	10		2	25	20,5	3		6,6	–	0,04	QM/8020/24
40	28	25	20	42	11		3	–	26	–		7	–	0,09	QM/57040/24
50	40	–	30	54	–		4	30,5	24	15		9	68	0,20	QM/57050/24
63	47	–	40	64	–		5	40,5	26,5	17,5		9	84	0,32	QM/57063/24

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Nose nut N

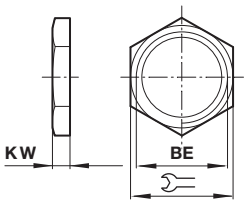




Ø	BE		KW	kg	Model (N)
8...12	M10x1	14	4	0,01	M/P71364
16	M12x1,25	19	6	0,01	M/P1501/90
20	M16x1,5	22	5	0,01	M/P13834
25	M18x1,5	24	5	0,01	M/P13607
32	M22x1,5	27	8	0,02	M/P13615
40	M30x1,5	36	8	0,03	M/P29254

Locknut N2

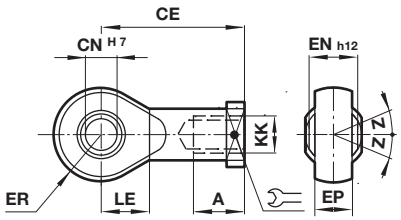




Ø	BE		KW	kg	Model (N)
8	M3	6	2	0,01	M/P1500/111
10/12	M4	7	2	0,01	M/P1501/80
16	M6	10	3	0,01	M/P1501/79
20	M8	13	4	0,01	M/P1501/60
25/32	M10x1,25	17	5	0,01	M/P1501/89
40/50	M12x1,25	19	6	0,01	M/P1501/90
63	M16x1,5	24	8	0,02	M/P1501/91

Universal piston rod eye UF
Conforms to DIN ISO 8139

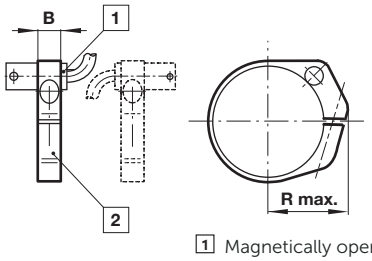




Ø	KK	AX	CE	Ø CN H7	EN -0,1	ER	LE	Z	kg	Model (UF)
10/12	M4	14	27	5	8	8	10	5°	0,02	QM/8010/32
16	M6	14	30	6	9	9	11	5°	0,02	QM/8012/32
20	M8	16	36	8	12	11	13	5°	0,05	QM/8020/32
25/32	M10x1,25	25	42	10	14	14	15	13°	0,08	QM/8025/32
40/50	M12x1,25	22	50	12	16	16	17	13°	0,12	QM/8040/32
63	M16x1,5	28	64	16	21	21	22	15°	0,33	QM/8050/32

Switch mounting brackets for stroke length larger than 15 mm



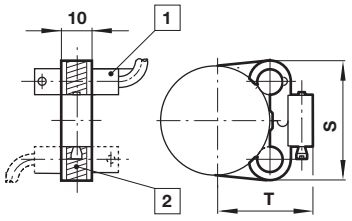


1 Magnetically operated switch
2 Switch mounting bracket

Ø	B	R max.	kg	Model
10	8	16	0,01	QM/33/010/22
12	8	18	0,01	QM/33/012/22
16	10	20	0,01	QM/33/016/22
20	10	22	0,01	QM/33/020/22
25	10	24	0,01	QM/33/025/22
32	10	29	0,01	QM/33/032/22
40	10	32	0,01	QM/33/040/22
50	10	38	0,01	QM/33/050/22
63	10	46	0,01	QM/33/063/22

Switch mounting brackets for stroke length up to 15 mm





1 Magnetically operated switch
2 Switch mounting bracket

Ø	S	T	kg	Model
10	27,5	19,5	0,01	QM/33/010/23
12	28,5	21,5	0,01	QM/33/016/23
16	29,5	23,5	0,01	QM/33/016/23
20	29,5	26	0,01	QM/33/020/23
25	31,5	28,5	0,01	QM/33/025/23

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- Magnetically operating reed switch - Round style
- Suitable for all cylinder ranges with magnetic piston
- Switches can be mounted flush with the delivered special adaptor
- LED indicator on LSU models
- Alternative variants allows a wide range of application



Technical features

Operation:
M/50/LSU Normally open with LED (yellow)

Switching voltage (Ub):
10 ... 240 V a.c./170 V d.c.

Switching voltage output:
Ub - 2,7 V

Switching current (see graph overleaf):
0,18 A max.

Switching power:
10 W/10 VA max.

Contact resistance:
150 mΩ

Response time:
1,8 ms

Operating temperature:
-25 ... +80 °C (-13 ... +176 °F)

High temperature version:
+150 °C max. (+302 °F)

Protection rating (EN 60529):
IP66

Shock resistance:
50 g (during 11 ms)

Vibration resistance:
35 g (at 2000 Hz)

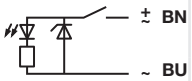
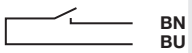
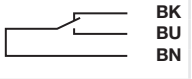
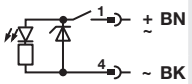
Cable type:
2 x 0,25: PVC, PUR or silikone
3 x 0,25 PVC

Cable length:
2, 5 or 10 m

Electromagnetic compatibility according to:
EN 60947-5-2

Materials:
Body: plastic
Cable: see table below

Technical data - Reed switches - additional information see data sheet en 4.3.005

Symbol	Voltage (V a.c.)	Voltage (V d.c.)	Current maximum (mA)	Function	Operating temperature (°C)	LED	Protection class	Plug	Cable length (m)	Cable type	Weight (g)	Model
	10 ... 240	10 ... 170	180	Normally open	-25 ... +80	•	IP 66	–	2, 5 or 10	PVC 2 x 0,25	37	M/50/LSU/*V
	10 ... 240	10 ... 170	180	Normally open	-25 ... +80	•	IP 66	–	5	PUR 2 x 0,25	37	M/50/LSU/5U
	10 ... 240	10 ... 170	180	Normally open	-25 ... +150	–	IP 66	–	2	Silicon 2 x 0,25	37	TM/50/RAU/2S
	10 ... 240	10 ... 170	180	Changeover	-25 ... +80	–	IP 66	–	5	PVC 3 x 0,25	37	M/50/RAC/5V
	10 ... 60	10 ... 60	180	Normally open	-25 ... +80	•	IP 66	M8 x 1	0,3	PVC 3 x 0,25	16	M/50/LSU/CP *1)
	10 ... 60	10 ... 60	180	Normally open	-25 ... +80	•	IP 66	M12 x 1	0,3	PVC 3 x 0,25	16	M/50/LSU/CC *1)

* Insert cable length; *1) Plug-in connector see page 12

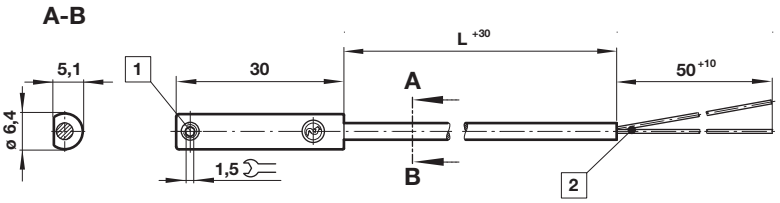
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Dimensions

M/50/LSU/*V, M/50/LSU/5U,
TM/50/RAU/2S
Cable length L = 2, 5 or 10 m

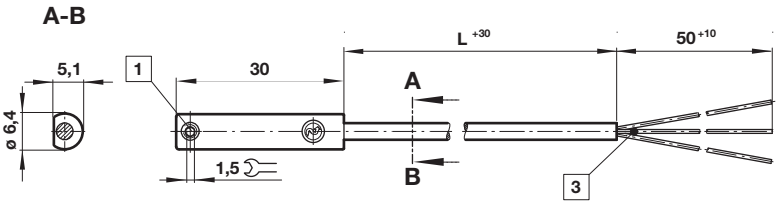
Dimensions in mm
Projection/First angle





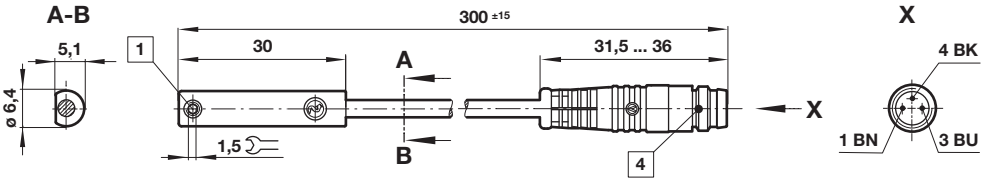
M/50/RAC/5V
Cable length L = 5 m





M/50/LSU/CP
M/50/LSU/CC





1 Fixing screw
2 + BN = brown; - BU = blue (output)
3 - BK = black; + BN = brown; - ≠BU = blue

4 Version CP: Plug M8 x 1, color code: BK = +; BN = -; BU = output
Version CC: Plug M12 x 1, color code: BK = +; BN = -; BU = output

Accessories

Plug-in connector cable with nut



Outer cover	Cable length (m)	Weight (kg)	Connector	Connector
PVC 3 x 0,25	5	0,18	M8 x 1 straight connector	M/P73001/5
PUR 3 x 0,25	5	0,18	M8 x 1 straight connector	M/P73002/5
PVC 3 x 0,25	5	0,18	angled connector 90°	M/P34615/5
PUR 3 x 0,25	5	0,18	angled connector 90°	M/P34596/5
PUR 3 x 0,34	5	0,21	M12 x 1 straight connector	M/P34594/5

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- Magnetically operated switch, solid state - round style
- IO-Link version available
- Suitable for all cylinder ranges with magnetic piston
- Switches can be mounted flush in all profile cylinders
- Reliable switching with a very fast reponse time
- Particularly suited for use in high levels of vibration
- LED indicator as standard
- UL listed



Technical features

Operation:
PNP / NPN (see table)
Output with LED (yellow)
Normally open (standard)

Switching voltage (Ub):
10 ... 30 V d.c.
("supply class 2" acc. to cULus)

Voltage drop at output:
< 2,5 V

Residual current:
< 0,5 mA

Switching current (see graph):
100 mA max. (standard)
300 mA max. (M/50/EHP

Switching power:
3,0 W max. (standard)
9,0 W max. (M/50/EHP)

Response time:
< 0,1 ms (standard)
< 5 ms (M/50/IOP)

Operating frequency:
1 kHz (standard)
200 Hz (M/50/IOP)

Responsiveness: 2,8 mT

Hysteresis:
0,5 ... 1,5 mT
0,2 mT (M/50/IOP)

Repeatability: < 0,1 mT

Protection rating (EN 60529):
IP67 (standard)
IP68 (M/50/EAP/5U, M/50/EHP/5U)

Operating temperature:
-40 ... +80 °C (-40 ... 176 °F) (permanently fixed cable)
-25 ... +80 °C (-13 ...176 °F) (moving cable)

Cable type:
PVC 3 x 0,14 mm² (standard)
PUR 3 x 0,14 mm² (M/50/E*P/*U and all variants with connector)

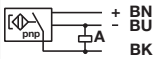
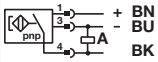
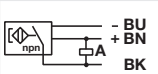
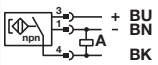
Cable length: 2, 5 and 10 m

Electromagnetic compatibility according to:
EN 60947-5-2

Materials:
Housing: plastic
Thread insert: brass
Set screw: stainless steel
Cable: see table below

Mounting type:
Flush mountable

Technical data - Solid state - additional information see data sheet en 4.3.007

Symbol	Voltage (V DC)	Current maximum (mA)	Function	IO-Link *1)	Operating temperature (°C)	LED	Protection class	Connector	Cable length (m)	Cable type	Weight (g)	Model
	10 ... 30	100	PNP		-40 ... +80	•	IP67	---	2	PVC 3 x 0,14	23	M/50/EAP/2V
	10 ... 30	100	PNP		-40 ... +80	•	IP67	---	5	PVC 3 x 0,14	56	M/50/EAP/5V
	10 ... 30	100	PNP		-40 ... +80	•	IP67	---	10	PVC 3 x 0,14	102	M/50/EAP/10V
	10 ... 30	100	PNP / NPN	•	-40 ... +80	•	IP67	---	5	PVC 3 x 0,14	56	M/50/IOP/5V
	10 ... 30	100	PNP		-40 ... +80	•	IP68	---	5	PUR 3 x 0,14	56	M/50/EAP/5U
	10 ... 30	100	PNP		-40 ... +80	•	IP67	---	10	PUR 3 x 0,14	102	M/50/EAP/10U
	10 ... 30	300	PNP		-40 ... +80	•	IP67	---	2	PVC 3 x 0,14	23	M/50/EHP/2V
	10 ... 30	300	PNP		-40 ... +80	•	IP67	---	5	PVC 3 x 0,14	56	M/50/EHP/5V
	10 ... 30	300	PNP		-40 ... +80	•	IP67	---	10	PVC 3 x 0,14	102	M/50/EHP/10V
	10 ... 30	300	PNP		-40 ... +80	•	IP68	---	5	PUR 3 x 0,14	56	M/50/EHP/5U
	10 ... 30	100	PNP		-40 ... +80	•	IP67	M8 x 1	0,3	PUR 3 x 0,14	7	M/50/EAP/CP
	10 ... 30	100	PNP / NPN	•	-40 ... +80	•	IP67	M8 x 1	0,3	PUR 3 x 0,14	7	M/50/IOP/CP
	10 ... 30	100	PNP		-40 ... +80	•	IP67	M12 x 1	0,3	PUR 3 x 0,14	16	M/50/EAP/CC
	10 ... 30	100	PNP		-40 ... +80	•	IP67	M12 x 1	2	PUR 3 x 0,14	35	M/50/EAP/CC/2
	10 ... 30	100	PNP / NPN	•	-40 ... +80	•	IP67	M12 x 1	0,3	PUR 3 x 0,14	16	M/50/IOP/CC
	10 ... 30	300	PNP		-40 ... +80	•	IP67	M8 x 1	0,3	PUR 3 x 0,14	7	M/50/EHP/CP
	10 ... 30	100	NPN		-40 ... +80	•	IP67	---	2	PVC 3 x 0,14	23	M/50/EAN/2V
	10 ... 30	100	NPN		-40 ... +80	•	IP67	---	5	PVC 3 x 0,14	56	M/50/EAN/5V
	10 ... 30	100	NPN		-40 ... +80	•	IP67	---	10	PVC 3 x 0,14	102	M/50/EAN/10V
	10 ... 30	100	NPN		-40 ... +80	•	IP67	M8 x 1	0,3	PUR 3 x 0,14	7	M/50/EAN/CP

Color code: see next page
*1) IO-Link functionality: see next page

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IO-Link Switch conforming to IEC 61131-9

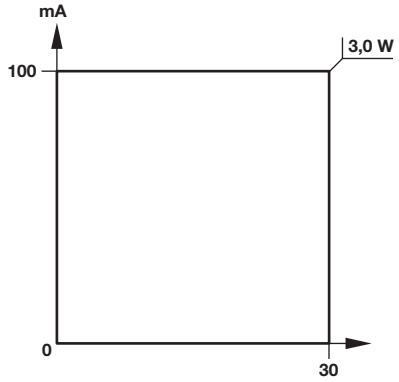
Properties and Functionality	M/50/EAP, M/50/EAN M/50/EHP	M/50/IOP	
Operating Mode	Standard	Standard	IO-Link
Power LED		•	•
LED sensor signal	•	•	•
Normally open (delivery status)	•	•	•
Normally closed		O	•
Delay mode		O	•
Installation aid		•	•
Temperature measurement			•
Detection counter			•
Teach functionality			•
Responsiveness adjustment			•

Note: IODD for the M/50/IOP switches available on the Norgren homepage.
https://www.norgren.com/uk/en/technical-support/software

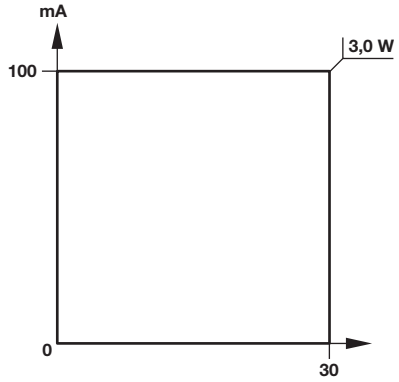
• = included
O = optional (manufacture pre-setting required)

Switching current and switching voltage

M/50/EAP, M/50/EAN, M/50/IOP



M/50/EHP

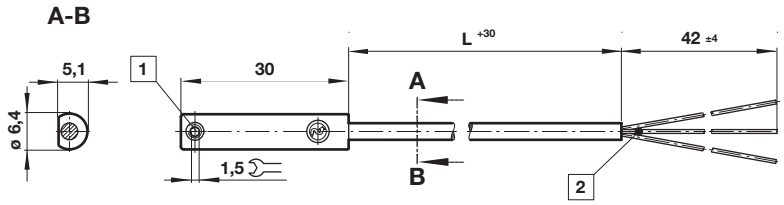


Dimensions

Dimensions in mm
Projection/First angle

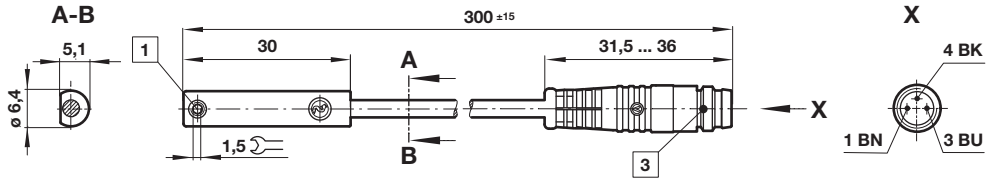
M/50/EAP/*V,
M/50/EAP/*U,
M/50/IOP/5V,
M/50/EHP/*V,
M/50/EHP/5U,
M/50/EAN/*V
Cable length L = 2, 5 or 10 m





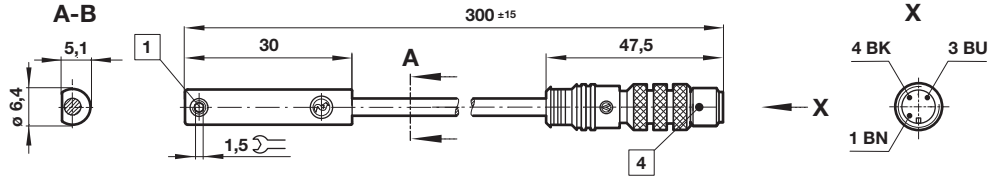
M/50/EAP/CP,
M/50/EAN/CP,
M/50/IOP/CP,
M/50/EHP/CP





M/50/EAP/CC,
M/50/IOP/CC,
M/50/EHP/CC





1 Fixing screw
2 Color code: BK = black (output); BN = brown (+); BU = blue (-)
3 Connector M8 x 1; 1 BN = +; 3 BU = -; 4 BK = output
4 Connector M12 x 1; 1 BN = +; 3 BU = -; 4 BK = output

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Accessories

Plug-in connector cable with nut



Outer cover	Cable length (m)	Weight (kg)	Connector	Connector
PVC 3 x 0,25	5	0,18	M8 x 1 straight connector	M/P73001/5
PUR 3 x 0,25	5	0,18	M8 x 1 straight connector	M/P73002/5
PVC 3 x 0,25	5	0,18	angled connector 90°	M/P34615/5
PUR 3 x 0,25	5	0,18	angled connector 90°	M/P34596/5
PUR 3 x 0,34	5	0,21	M12 x 1 straight connector	M/P34594/5

Warning

These products are intended for use in industrial compressed air systems only. Do not use these products where pressures and temperatures can exceed those listed under »**Technical features/ data**«.
Before using these products with fluids other than those specified, for non-industrial applications, life-support systems or other applications not within published specifications, consult Norgren GmbH.

Through misuse, age, or malfunction, components used in fluid power systems can fail in various modes.

The system designer is warned to consider the failure modes of all component parts used in fluid power systems and to provide adequate safeguards to prevent personal injury or damage to equipment in the event of such failure.
System designers must provide a warning to end users in the system instructional manual if protection against a failure mode cannot be adequately provided.
System designers and end users are cautioned to review specific warnings found in instruction sheets packed and shipped with these products.

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