

R./57100/M, R./57300/M, Roundline cylinder Magnetic piston, single acting

- Ø 8 ... 40 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:

R./57100: Single acting, sprung in with buffer cushioning

R./57300: Single acting, sprung out with buffer cushioning

Operating pressure:

2 ... 10 bar (29 ... 145 psi)

Ø 8 mm: 3 ... 10 bar (43 ... 145 psi)

Cylinder diameters:

8, 10, 12, 16, 20, 25, 32, 40 mm

Strokes:

10, 25, 50 mm

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 (Ø 8 ... 16 mm austenitic, Ø 20 ... 40 mm martensitic)

Barrel: Stainless steel (austenitic)

End covers: Aluminium

Wiper: PUR

Seals and 'O'-rings: NBR

Technical data

Cylinder RT/57100/M & RT/57300/M (Ø8 ... 40 mm); RM/57100/M & RM/57300/M (Ø20 ... 40 mm)

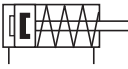
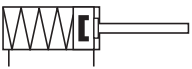
Cylinder Ø (mm)	8	10	12	16	20	25	32	40
Port size	M3 (M3)*1)	M5 (M5)*1)	M5 (M5)*1)	M5 (M5)*1)	Rc 1/8 (M6)*1)	Rc 1/8 (M6)*1)	Rc 1/8 (G 1/8)*1)	Rc 1/8 (G 1/8)*1)
Piston rod Ø (mm)	3	4	4	6	8	10	12	14
Piston rod thread	M3	M4	M4	M6	M8	M10 x 1,25	M10 x 1,25	M12 x 1,25
R./57100/M								
Theoretical thrusts at 6 bar outstroke N	22,7	38,2	56,2	101	161	264	432	687
Theoretical thrusts F1 outstroke (N)	3,6	4,6	6,1	10,5	14,5	20	32	44
Air consumption at 6 bar outstroke l/cm	0,004	0,005	0,008	0,014	0,022	0,035	0,056	0,087
R./57300/M								
Theoretical thrusts at 6 bar outstroke N	18,6	30,8	48,4	84,5	131	217	364	594
Theoretical thrusts F1 outstroke (N)	3,6	4,6	6,1	10,5	14,5	20	32	44
Air consumption at 6 bar outstroke l/cm	0,003	0,004	0,006	0,013	0,019	0,028	0,048	0,074

*1) Values in () for RM/57... only

Standard strokes

Cylinder Ø (mm)	Stroke length (mm)		
	10	25	50
8	•	•	•
10	•	•	•
12	•	•	•
16	•	•	•
20	•	•	•
25	•	•	•
32	•	•	•
40	•	•	•

Cylinder variants

Symbol	Model magnetic piston	Description	Dimensions
			Page
	R./57100/M	Standard cylinder, sprung in (RT/571... - Ø8 ... 40 mm; RM/571... - Ø20 ... 40 mm)	4
	R./57100/MC	Cylinder with central rear port (RT/571... - Ø8 ... 40 mm; RM/571... - Ø20 ... 40 mm)	4
	R./57300/M	Standard cylinder, sprung out (RT/573... - Ø8 ... 40 mm; RM/573... - Ø20 ... 40 mm)	4
	R./57300/MC	Cylinder with central rear port (RT/573... - Ø8 ... 40 mm; RM/573... - Ø20 ... 40 mm)	4

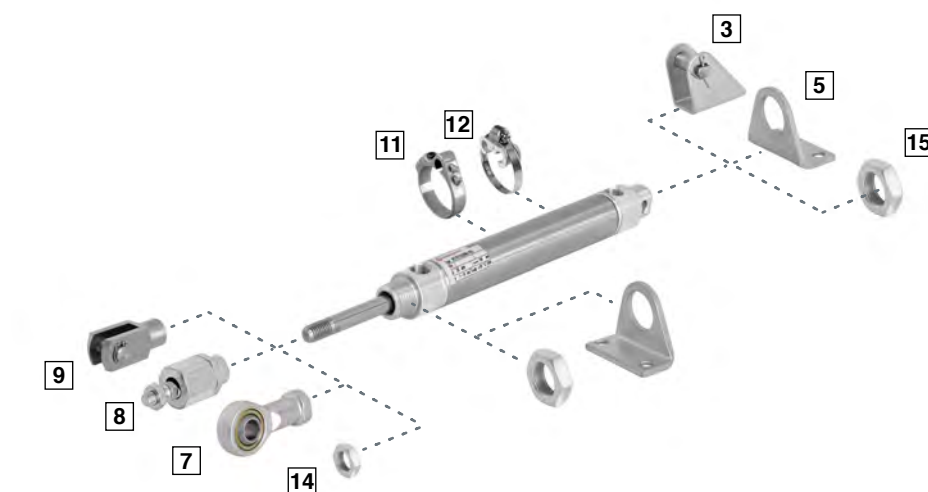
Option selector

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
Spring position		Substitute
Sprung in		1
Sprung out		3

R★/57★ ★ ★ / ★ ★ / ★ ★ ★

Stroke (mm)	
50 max.	
Cylinder variants	Substitute
Magnetic piston	M
Magnetic piston, central rear port, flat end	MC
Cylinder Ø (mm)	Substitute
8	08
10	10
12	12
16	16
20	20
25	25
32	32
40	40

Mountings



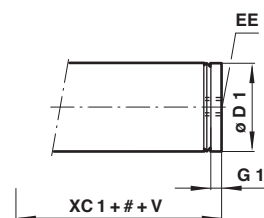
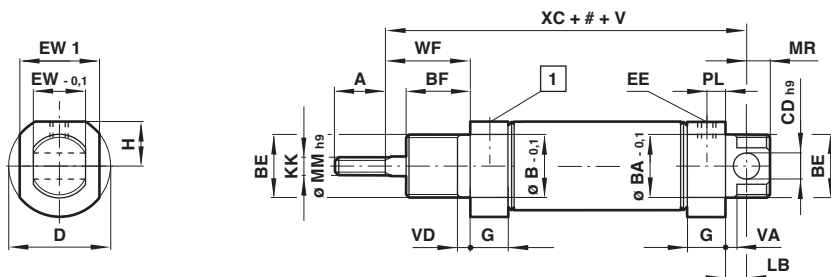
Cyl.	AK	C	F	L	N
					
	8 Page 5	5 Page 5	9 Page 5	3 Page 5	15 Page 5
Ø					
8	—	M/P71273/1	QM/57008/25	QM/57008/24	M/P71364
10	QM/8010/38	M/P71273/2	QM/8010/25	QM/947	M/P71364
12	QM/8010/38	M/P71273/2	QM/8010/25	QM/947	M/P71364
16	QM/8012/38	M/P19369	QM/57016/25	QM/946	M/P1501/90
20	QM/8020/38	M/P19389	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

Cyl.	N2	UF	Switch mounting brackets >15 mm stroke	<15 mm stroke	Magnetically operated switches
					
	14 Page 5	7 Page 6	11 Page 6	12 Page 6	Page 7 ... 11
Ø					
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	—	

Basic dimensions Ø 8 ... 12 mm - R./571../M

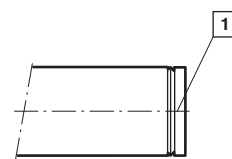
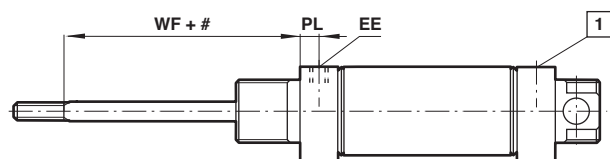
RT/571../MC

Dimensions in mm
Projection/First angle



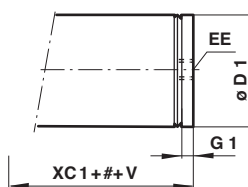
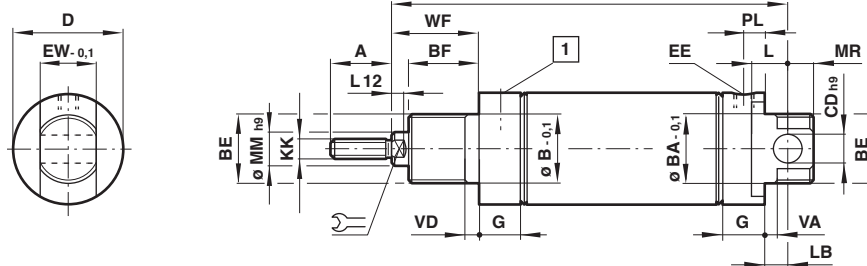
Ø 8 ... 12 mm - R./573../M

RT/573../MC



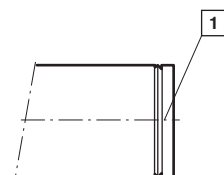
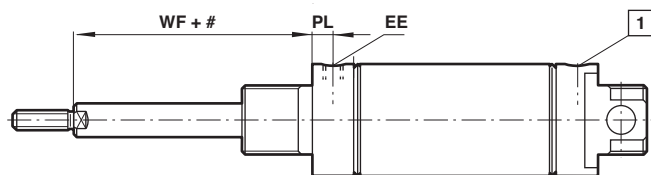
Ø 16 ... 40 mm - R./571../M

RT/571../MC



Ø 8 ... 12 mm - R./573../M

RT/573../MC



Stroke
1 Filtered exhaust position, do not obstruct

Ø	A	Ø B/Ø BA	BE	BF	Ø CD h9	Ø D	Ø D1	RT/57... EE	RM/57... EE	EW -0.1	EW1	G	G1	H	KK	L
8	8	10	M10 x 1	7,5	3	12	9,5	M3	—	6	10	7,5	3	5	M3	—
10	9	10	M10 x 1	8	4	15	11,5	M5	—	8	12,5	9,5	4,5	6,5	M4	—
12	9	10	M10 x 1	8	4	15	13	M5	—	8	—	9,5	4,5	6,5	M4	—
16	12	12	M12 x 1,25	10	5	17,5	17,5	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	⌘	V *1)	V *2)	VA/VD	WF	XC	XC1	57100 kg < 25 mm	57300 kg < 25 mm	kg per 25 mm	Model
8	4,5	—	3	3	4	—	17	34	1,5	8,5	48	39	0,017	0,02	0,01	RT/57.08/M/*
10	5	—	4	4	5,5	—	14	28	1,5	10	54	44	0,025	0,02	0,01	RT/57.10/M/*
12	5	—	4	4	5,5	—	14	28	1,5	10	54	44	0,027	0,03	0,01	RT/57.12/M/*
16	7	5	6	5	5,5	5	15	30	2	13,5	64,5	50	0,053	0,05	0,01	RT/57.16/M/*
20	7	5	8	6	9	7	17	34	3	15,5	75,5	61	0,095	0,09	0,02	R./57.20/M/*
25	9	5	10	8	9	9	18	36	3	16,5	78,5	62	0,15	0,14	0,03	R./57.25/M/*
32	7	5	12	8	9	10	19	38	3	23	93	74	0,26	0,25	0,04	R./57.32/M/*
40	5	6	14	10	10	12	20	40	3	24	96	78,5	0,50	0,38	0,05	R./57.40/M/*

* Please insert standard stroke length.

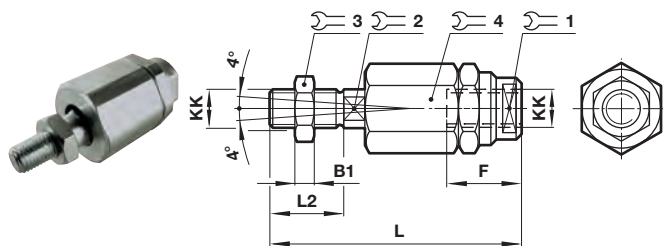
*1) For 10 and 25 mm stroke

*2) For 50 mm stroke only

Mountings

Piston rod swivel AK

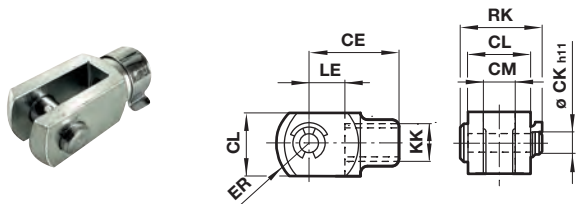
Conforms to DIN ISO 8139



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	M 12x1,25	6	26	77	24	19	12	19	30	0,20	QM/8040/38

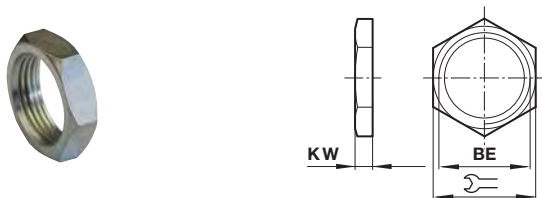
Piston rod clevis F

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	M12x1,25	40	10	20	10	16	20	29	0,09	QM/57040/25

Nose nut N

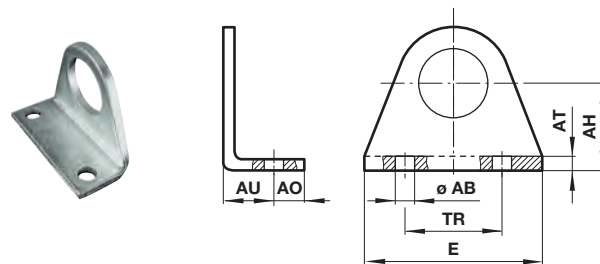


Ø	BE		KW	kg	Model (N)
8..12	M10x1	14	4	0,01	M/P71364
16	M12x1,25	19	6	0,01	M/P1501/90
20	M16x1,5	22	5	0,01	M/P13834
25	M18x1,5	24	5	0,01	M/P13607
32	M22x1,5	27	8	0,02	M/P13615
40	M30x1,5	36	8	0,03	M/P29254

Foot C

Conforms to DIN ISO 6432

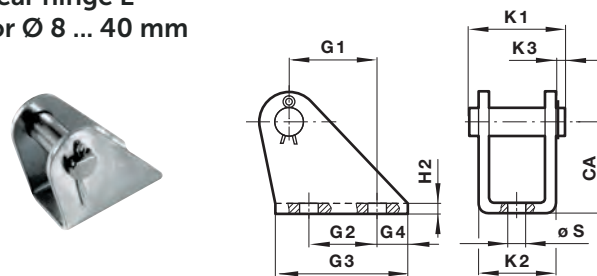
Dimensions in mm
Projection/First angle



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

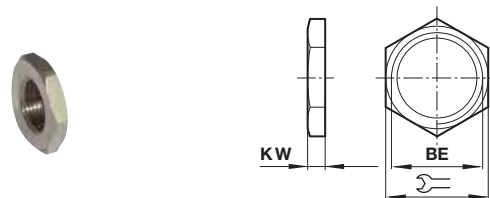
Rear hinge L

for Ø 8 ... 40 mm



Ø	CA	G	1	2	3	4	H2	K	1	2	3	Ø	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		

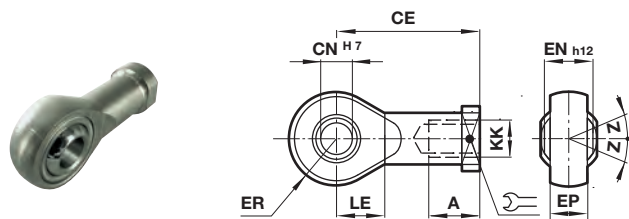
Locknut N2



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	M12x1,25	19	6	0,01	M/P1501/90

Universal piston rod eye UF Conforms to DIN ISO 8139

Dimensions in mm
Projection/First angle



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	M12x1,25	22	50	12	16	16	17	13°	0,12	QM/8040/32

Switch mounting brackets - Brackets > 15 mm stroke



- 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

Switch mounting brackets - Brackets < 15 mm stroke



- 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

- 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 (U_b):
10 ... 240 V a.c./170 V d.c.

Switching voltage output:
U_b - 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)

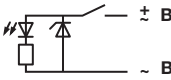
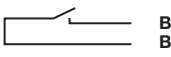
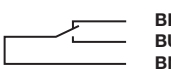
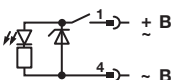
Cable type:
2 x 0,25: PVC, PUR or silikon
3 x 0,25 PVC

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		Current maximum	Function	Operating temperature	LED	Protection class	Plug	Cable length	Cable type	Weight	Model
	(V a.c.)	(V d.c.)	(mA)		(°C)				(m)		(g)	
	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

- 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 response 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 (U_b):
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)

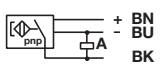
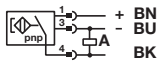
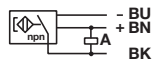
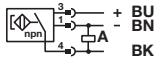
Cable length: 2, 5 and 10 m

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

IO-Link Switch conforming to IEC 61131-9

Properties and Functionality	M/50/EAP, M/50/EAN M/50/EHP		M/50/IOP	
	Standard		Standard	IO-Link
Operating Mode				
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				•

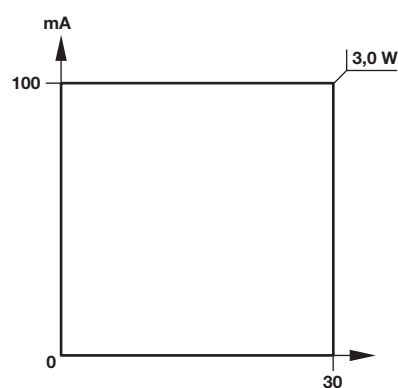
Note: IODD for the M/50/IOP switches available on the Norgren homepage.
<https://www.norgren.com/uk/en/technical-support/software>

• = included

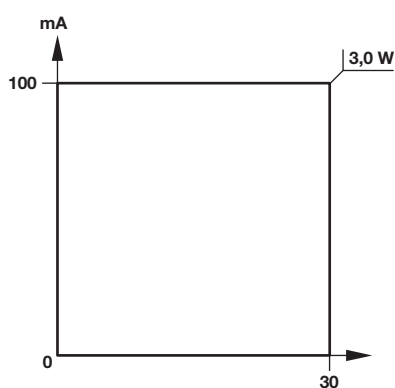
O = optional (manufacture pre-setting required)

Switching current and switching voltage

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



M/50/EHP



Dimensions

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



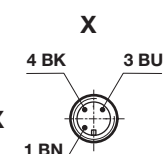
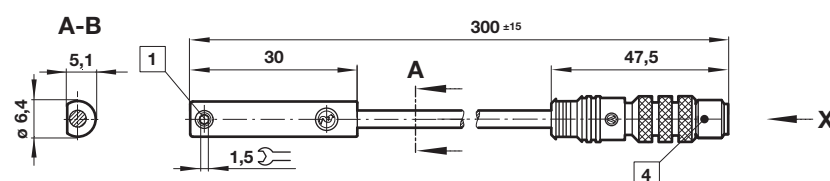
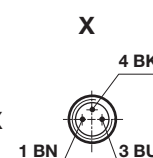
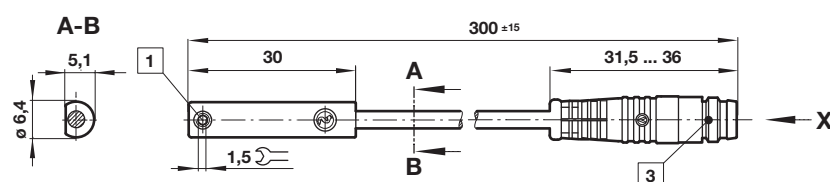
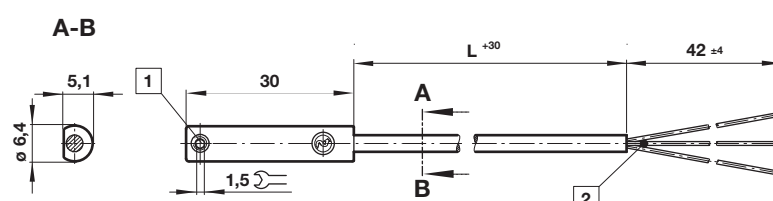
M/50/EAP/CP,
M/50/EAN/CP,
M/50/IOP/CP,
M/50/EHP/CP



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



Dimensions in mm
Projection/First angle



1 Fixing screw

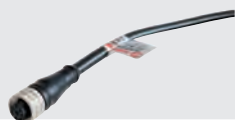
2 Color code: BK = black (output); BN = brown (+); BU = blue (-)

3 Connector M8 x 1; 1 BN = +; 3 BU = -; 4 BK = output

4 Connector M12 x 1; 1 BN = +; 3 BU = -; 4 BK = output

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.