Series GSU

EMERSON™

Series GSU

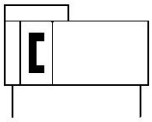
AVENTICS Series GSU cylinders are the ideal basis for many handling systems. Stroke length and stroke position can be set variably along the entire length of the guided slide unit – individually from both sides, underscoring the great flexibility during installation. Their very low height and the option of ventilation from one side improve their integration capacity.

- High load capacity with optimized height
- Rodless drive
- Air connection on one or both sides available
- Variable stroke setting possible
- Hydraulic end position cushioning
- Stable linear guide
- Integrated sensor grooves
- Easy-2-Combine system component

Product overview

Guided slide unit, Series GSU

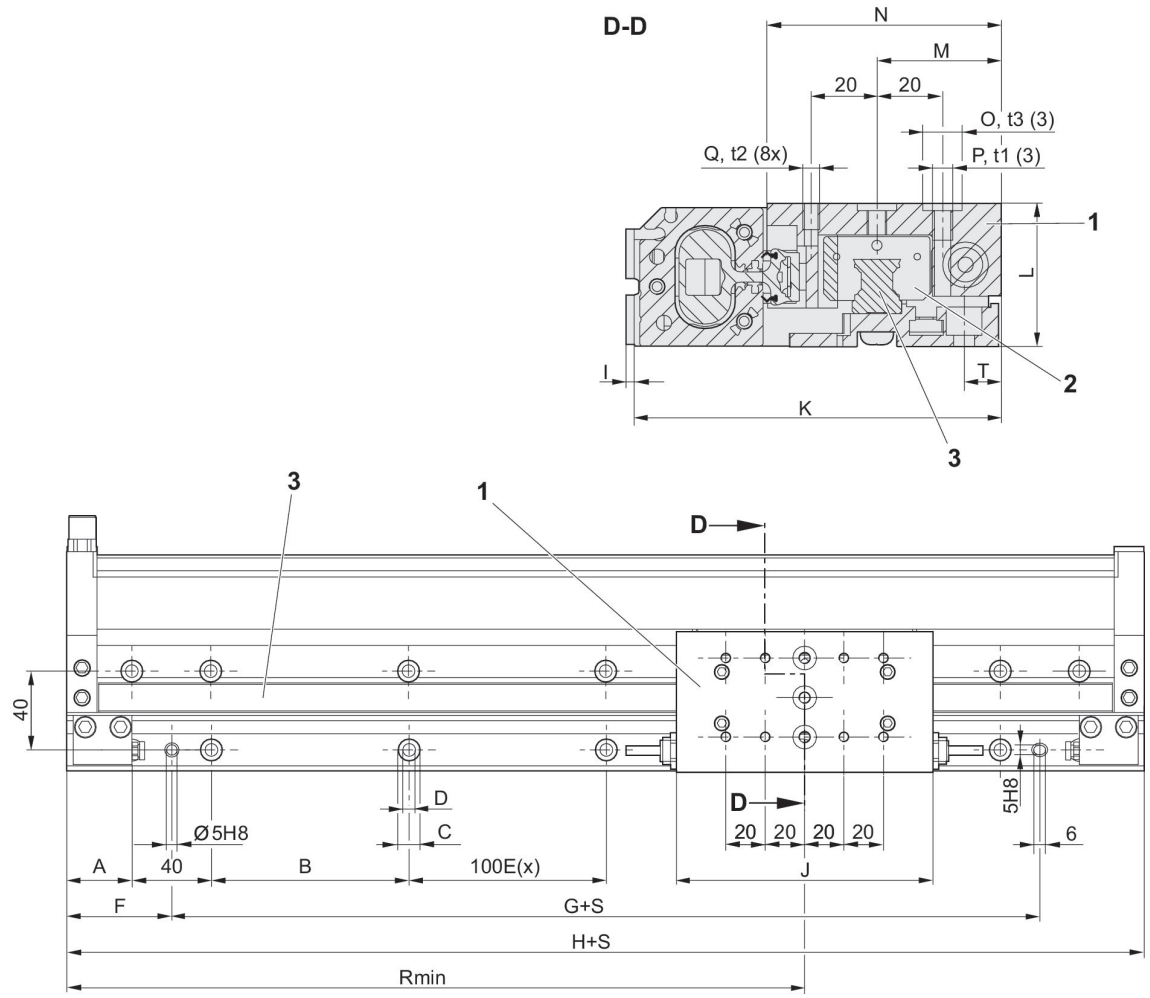
Cushioning: hydraulic
Functional principle: Double-acting
: with magnetic piston
Ambient temperature min./max.: 0 °C ... 60 °C
Working pressure min./max.: 1.5 bar ... 8 bar



Piston Ø	16 mm	25 mm
Ports	M5	G 1/8
Stroke 200	R402000986	R402000995
300	R402000987	R402000996
400	R402000988	R402000997
500	R402000989	R402000998
600	R402000990	R402000999
700	R402000991	R402001000
800	R402000992	R402001001
900	R402000993	R402001002
1000	R402000994	R402001003

Piston Ø	16 mm	25 mm
Piston force	127 N	309 N
Cushion- ing energy	2.3 J	3.3 J
Cushioning length	10 mm	12.5 mm

Dimensions



S = stroke
t1, t2 = depth of thread t3 = sinkhole depth
1) Ball rail table
2) Guide shuttle
3) Guide rail

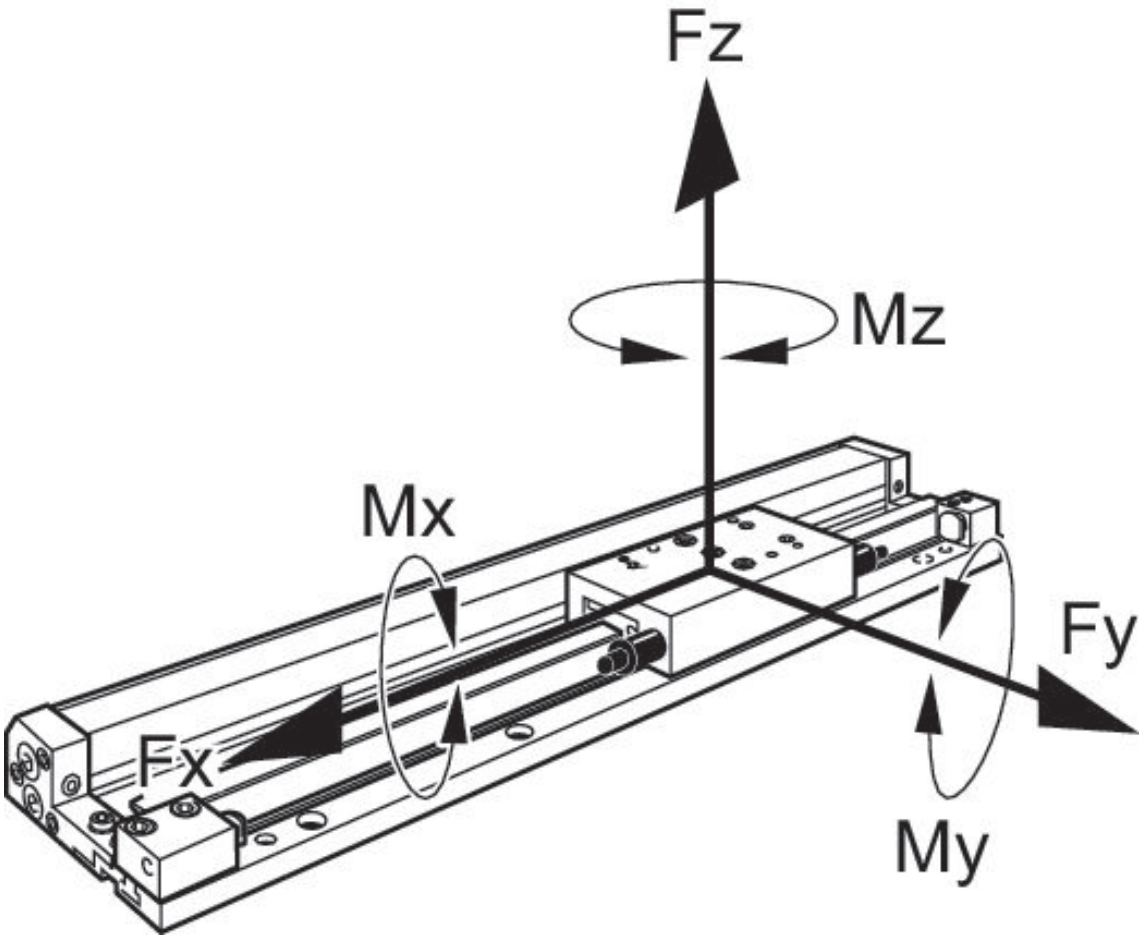
Piston Ø	A	B	C	D	F	G	H	I	J
16	25	92	Ø 9,5	Ø 5,5	45	124	214	3.6	110
25	33	100	Ø 11	Ø 6,6	53	140	246	2.5	130

Piston Ø	K	L	M	N	O	t3	P	t1	Q
16	99	29	33.5	69	Ø 9 H8	2,1 +0,2	M5	9	M4
25	111.65	43.5	37.85	71.15	Ø 12 H8	2,1 +0,2	M6	9	M5

Piston Ø	t2	R 1)	T
16	8	107	7.5
25	8	123	11.35

1) Min.

Permissible forces Fx, Fy, Fz and torques Mx, My, Mz
static

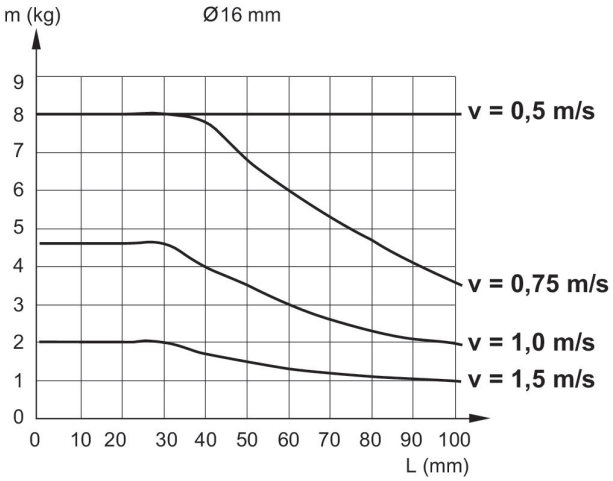


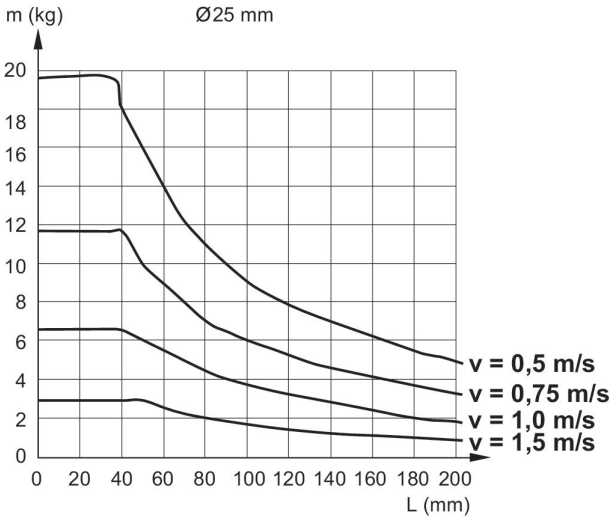
Piston Ø	Fx [N]	Fy [N]	Fz [N]	Mx [Nm]	My [Nm]	Mz [Nm]
16	880	880	1500	20	40	40
25	1070	1070	2500	55	65	65

Weight [kg]

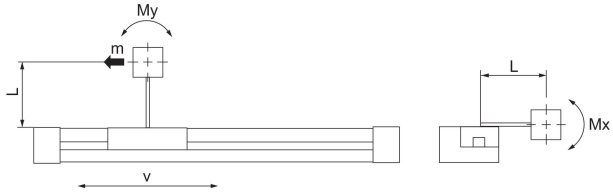
Piston Ø	Stroke	200	300	400	500	600	700	800	900
16	E(x)	1	2	3	4	5	6	7	8
25	E(x)	1	2	3	4	5	6	7	8

Piston Ø	1000
16	9
25	9



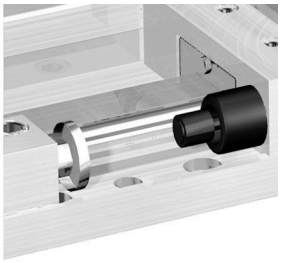


dynamic



L indicates the distance between the mounting plate center and the center of mass of the attached parts.

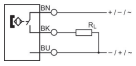
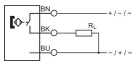
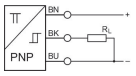
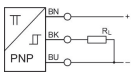
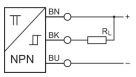
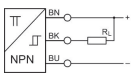
Kit for shock absorber end stop adjustment



for series	Part No.
GSU-16	R402001207
GSU-25	R402001208

Sensors, Series ST4, open cable ends, Certificate UL (Underwriters Laboratories)

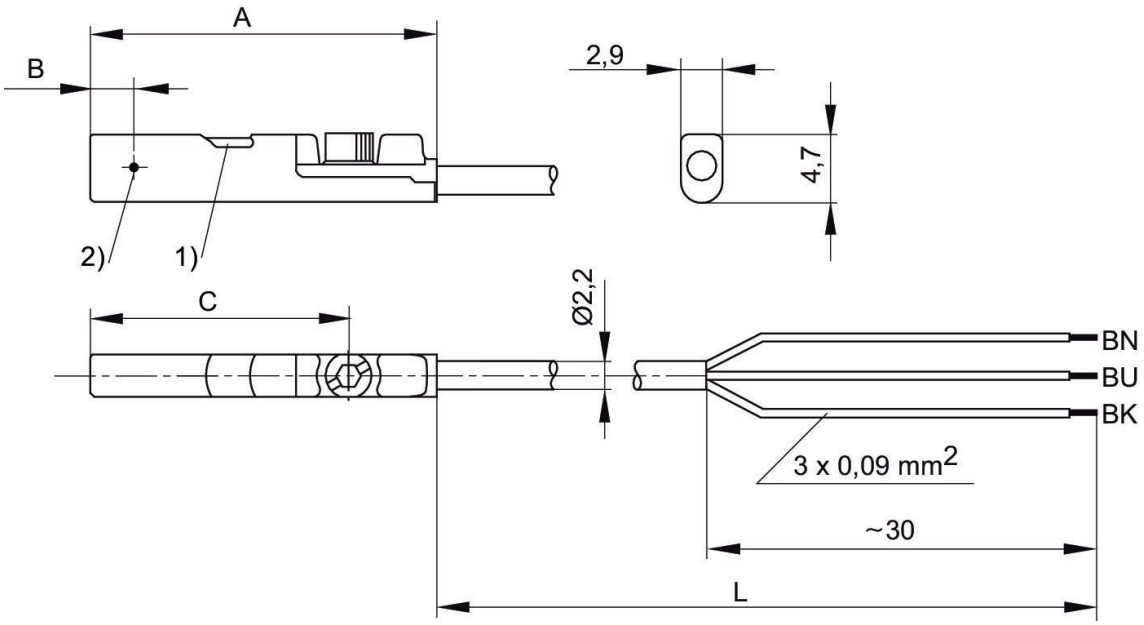
: 4 mm C-slot
: with cable
Direct mounting for series: PRA, SSI, GSU, RTC, CKP, GPC, MSC, MSN, RCM, CVI
Indirect mounting for series: MNI, CSL-RD, ICM
Certificates: UL (Underwriters Laboratories), cULus, RoHS
Ambient temperature min./max.: -30 °C ... 80 °C

	Direct mounting for series	Switch descr.	Cable length L [m]	Max. DC switching current [A]	Max. AC switching current [A]	Min. operating voltage DC [V DC]	Max. operating voltage DC [V DC]	Part No.
	PRA, SSI, GSU, RTC, CKP, GPC, MSC, MSN, RCM, CVI	Reed	3	0.13	0.13	5	30	R412019488
	PRA, SSI, GSU, RTC, CKP, GPC, MSC, MSN, RCM, CVI	Reed	5	0.13	0.13	5	30	R412019489
	PRA, SSI, GSU, RTC, CKP, GPC, MSC, MSN, RCM, CVI	electronic PNP	3	0.1		10	30	R412019680
	PRA, SSI, GSU, RTC, CKP, GPC, MSC, MSN, RCM, CVI	electronic PNP	5	0.1		10	30	R412019681
	PRA, SSI, GSU, RTC, CKP, GPC, MSC, MSN, RCM, CVI	NPN	3	0.1		10	30	R412019684
	PRA, SSI, GSU, RTC, CKP, GPC, MSC, MSN, RCM, CVI	NPN	5	0.1		10	30	R412019685

Version	Part No.
Protected against polarity reversal	R412019488
Protected against polarity reversal	R412019489
short circuit resistant, Protected against	R412019680

Version	Part No.
polarity reversal	
short circuit resistant, Protected against polarity reversal	R412019681
short circuit resistant, Protected against polarity reversal	R412019684
short circuit resistant, Protected against polarity reversal	R412019685

Dimensions

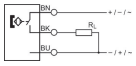
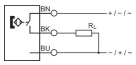
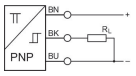
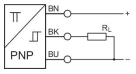


1) LED 2) Switching point
L = cable length BN = brown, BK = black, BU = blue

Part No.	A	B	C
R412019488	26.3	6.3	20.3
R412019489	26.3	6.3	20.3
R412019680	23.7	2.8	17.7
R412019681	23.7	2.8	17.7
R412019684	23.7	2.8	17.7
R412019685	23.7	2.8	17.7

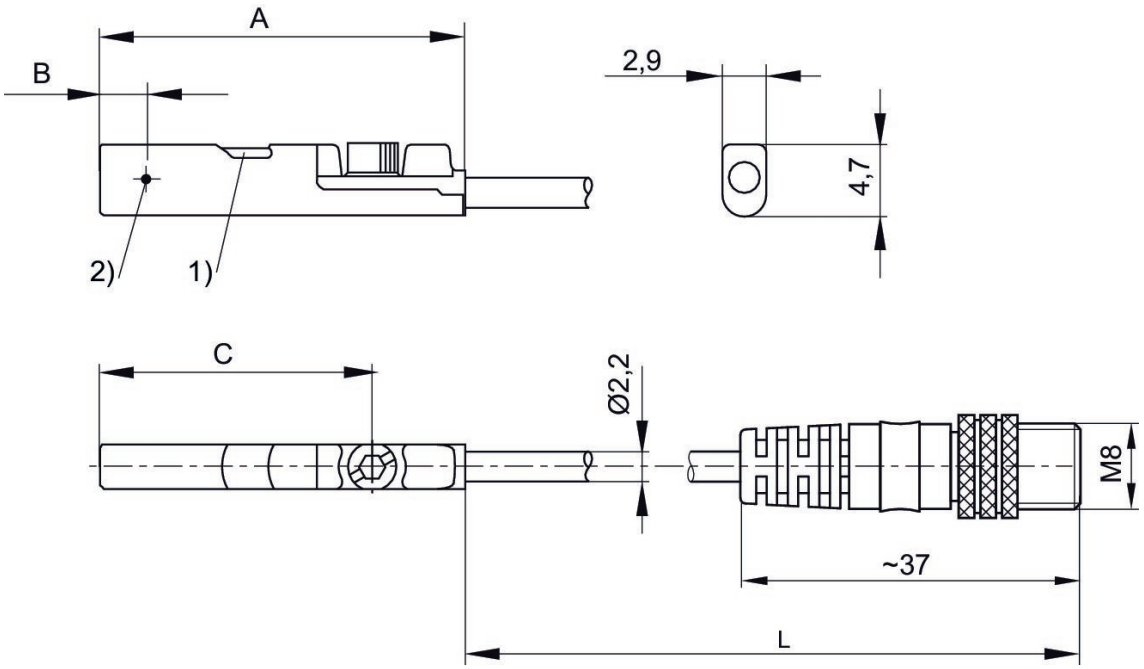
Sensors, Series ST4, plug M8, with knurled screw

: 4 mm C-slot
: with cable
Direct mounting for series: PRA, SSI, GSU, RTC, CKP, GPC, MSC, MSN, RCM, CVI
Indirect mounting for series: MNI, CSL-RD, ICM
Certificates: UL (Underwriters Laboratories), cULus, RoHS
Ambient temperature min./max.: -30 °C ... 80 °C

	Direct mounting for series	Switch descr.	Cable length L [m]	Max. DC switching current [A]	Max. AC switching current [A]	Min. operating voltage DC [V DC]	Max. operating voltage DC [V DC]	Part No.
	PRA, SSI, GSU, RTC, CKP, GPC, MSC, MSN, RCM, CVI	Reed	0.3	0.13	0.13	5	30	R412019490
	PRA, SSI, GSU, RTC, CKP, GPC, MSC, MSN, RCM, CVI	Reed	0.5	0.13	0.13	5	30	R412019686
	PRA, SSI, GSU, RTC, CKP, GPC, MSC, MSN, RCM, CVI	electronic PNP	0.3	0.1		10	30	R412019493
	PRA, SSI, GSU, RTC, CKP, GPC, MSC, MSN, RCM, CVI	electronic PNP	0.5	0.1		10	30	R412019687

Version	Part No.
Protected against polarity reversal	R412019490
Protected against polarity reversal	R412019686
short circuit resistant, Protected against polarity reversal	R412019493
short circuit resistant, Protected against polarity reversal	R412019687

Dimensions

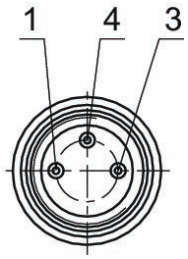


1) LED 2) Switching point
L = cable length

Part No.	A	B	C
R412019490	26.3	6.3	20.3
R412019686	26.3	6.3	20.3
R412019493	23.7	2.8	17.7
R412019687	23.7	2.8	17.7

R412019490, R412019686, R412019493, R412019687

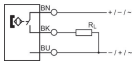
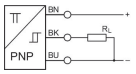
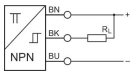
Pin assignment M8x1 (3-pin)



Pin	Allocation
1	(+)
3	(-)
4	(OUT)

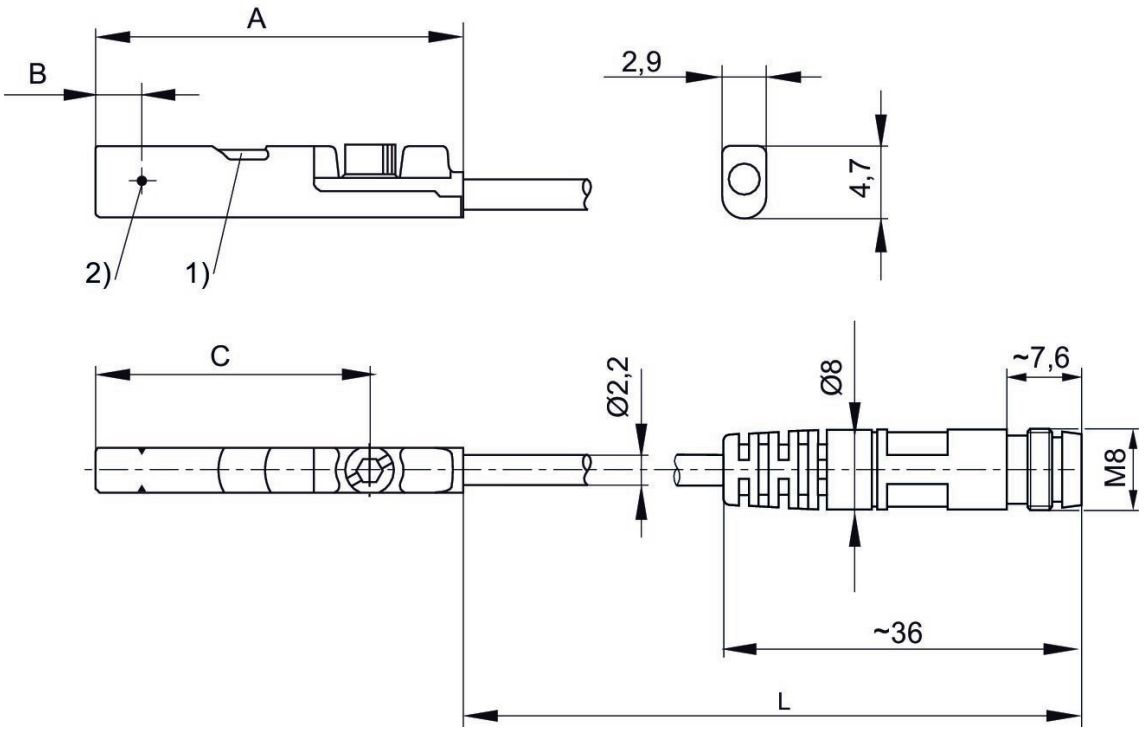
Sensors, Series ST4, plug M8

: 4 mm C-slot
: with cable
Direct mounting for series: PRA, SSI, GSU, RTC, CKP, GSP, MSC, MSN, RCM, CVI
Indirect mounting for series: MNI, CSL-RD, ICM
Certificates: UL (Underwriters Laboratories), cULus, RoHS
Ambient temperature min./max.: -30 °C ... 80 °C

	Direct mounting for series	Switch descr.	Cable length L [m]	Max. DC switching current [A]	Max. AC switching current [A]	Min. operating voltage DC [V DC]	Max. operating voltage DC [V DC]	Part No.
	PRA, SSI, GSU, RTC, CKP, GSP, MSC, MSN, RCM, CVI	Reed	0.3	0.13	0.13	5	30	R412019682
	PRA, SSI, GSU, RTC, CKP, GSP, MSC, MSN, RCM, CVI	electronic PNP	0.3	0.1		10	30	R412019683
	PRA, SSI, GSU, RTC, CKP, GSP, MSC, MSN, RCM, CVI	NPN	0.3	0.1		10	30	R412019694

Version	Part No.
Protected against polarity reversal	R412019682
short circuit resistant, Protected against polarity reversal	R412019683
short circuit resistant, Protected against polarity reversal	R412019694

Dimensions

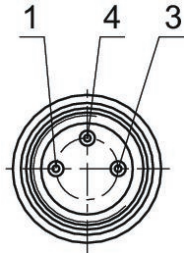


1) LED 2) Switching point
L = cable length

Part No.	A	B	C
R412019682	26.3	6.3	20.3
R412019683	23.7	2.8	17.7
R412019694	23.7	2.8	17.7

R412019682, R412019683, R412019694

Pin assignment M8x1 (3-pin)



Pin	Allocation
1	(+)
3	(-)
4	(OUT)

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