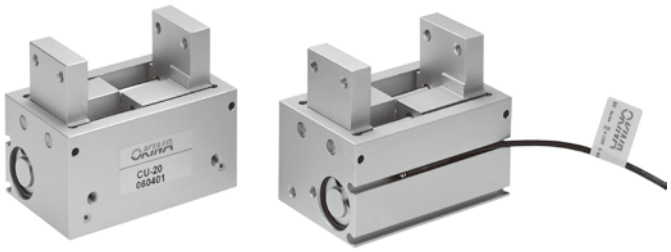
※ Compact design for low weight and hight reliability of long life.
※ With resistant bush guide, however even fixing long attachments, they are moving smoothly.
※ Auto switch with indicator lamp for reed switch and Mangneto-Resistive(MR) sensor(NPN or PNP)



How to order

CU-12 -RT 1

Type

Number of auto switch

Auto switch type

Perpendicular	In-line	Style
RTV	RT	Reed switch
RTNV	RTN	NPN
RTPV	RTP	PNP

(Refer to P.79 for detailed auto switch specifications)

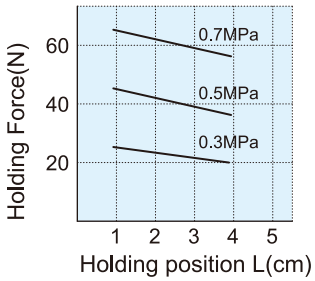
Specifications

Model	CU-12	CU-16	CU-20
Bore	12	16	20
Opening / Closing stroke (both sides)	15	20	25
Fluid	Air 0.3~0.7 MPa (3.1~7.1kgf/cm²)		
Operating temperature °C	-10°~60°		
Optimal gripping force (N)	20-49	39-78	78-118
Repeatability(mm)	±0.03		
Lubrication	Non-lube		
Action	Double acting		
Weight (g)	160	280	510

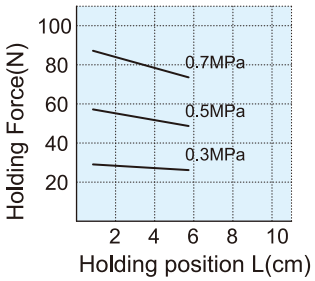
* Maintenance: Re-Lubrication after appr. 1.5 million cycles recommended

Gripping force diagrams

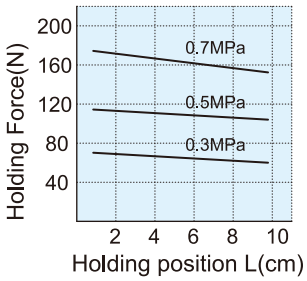
CU-12

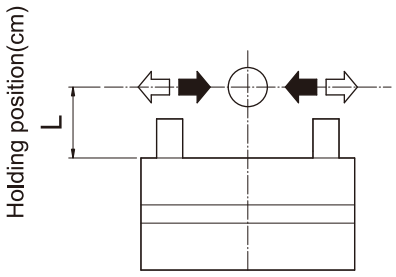


CU-16



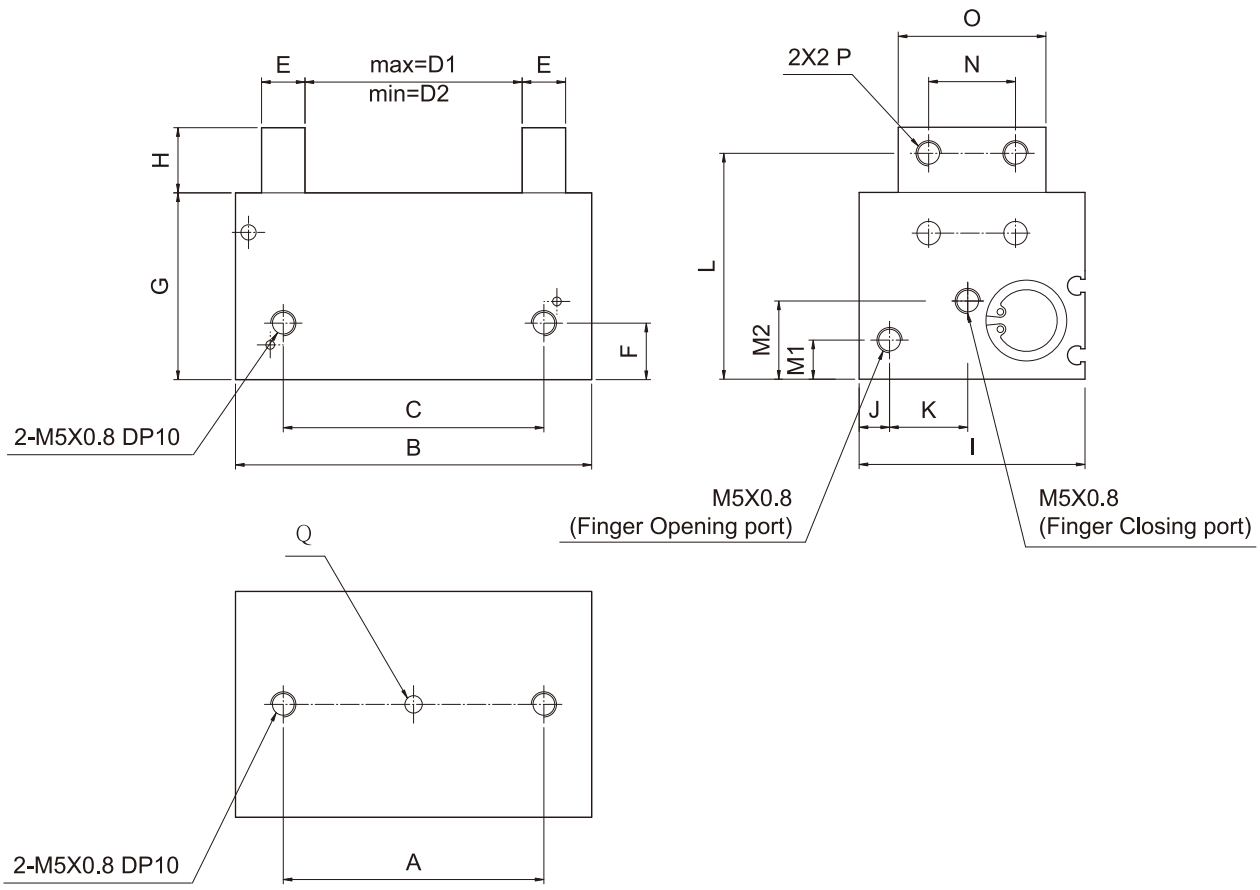
CU-20





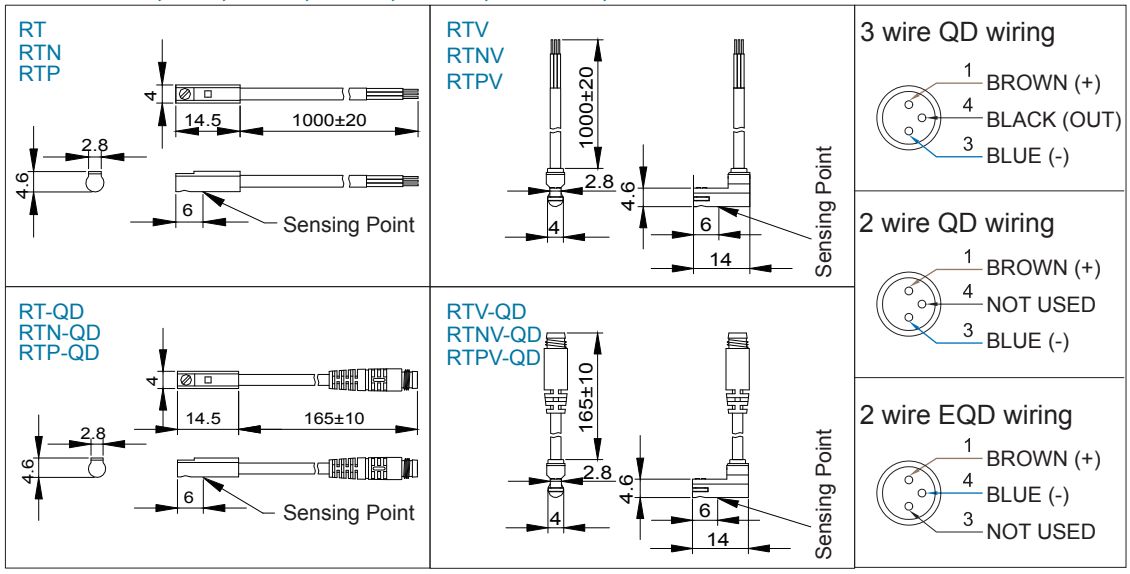
Dimensions

CU-12~20



Model	A	B	C	D1	D2	E	F	G	H	I	J	K	L	M1	M2	N	O	P	Q
CU-12	30	54	30	30	15	6	12	29	10	38	6	10	35	6.5	9	14	$22^{0}_{-0.1}$	M4x0.7	Ø2H9DP2
CU-16	40	70	40	40	20	10	13.5	34	12	43	7	12	41	7	10	18	$30^{0}_{-0.1}$	M5x0.8	Ø3H9DP4
CU-20	60	82	60	50	25	10	15	43	22	56	11.5	12.5	59	10	20.5	20	$35^{0}_{-0.1}$	M5x0.8	Ø3H9DP6

Applicable Type: CGZ,CGZT,CGZF,CGZH,CG2(16~25),CG2L(16~25), CQZ,CU,CKL,GRY,MRB,MRBS,MRC



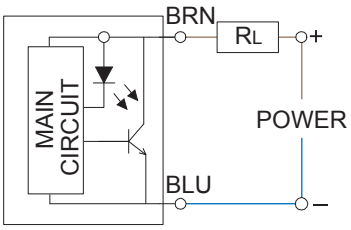
Specifications

	RT/RTV	RTN/RTNV	RTP/RTPV
Switching logic	SPST Normally Open	Solid State Output, Normally Open	
Sensor Type	Reed Switch	NPN Current Sinking	PNP Current Sourcing
Operating Voltage	5~120V DC/AC	5~28V DC	
Switching Current	4~20mA max.	50mA max.	
Switching Rating (NOTE 1.)	0.6W max.	1.5W max.	
Current Consumption	–	10mA@24 DC max.	
Voltage Drop	2.5V max.@40mA DC	0.5V@50mA max.	
Leakage Current	–	0.01mA max.	
Indicator	Red LED		Red or Green LED
Cable	2.6 Ø,2C,PVC	2.6 Ø,3C,PVC	
Max.Switch Frequency	200Hz	1000Hz	
Magnet Requirement	40Gauss		
Temperature Range	-10~70°C		
Shock (NOTE 2.)	30G	50G	
Vibration	90 m/s2 (9G), Double amplitude 1.5 mm		
Enclosure Classification	IP67		
Protection Circuit	None	Power Source Reverse polarity , Surge Suppression , Short-circuit	

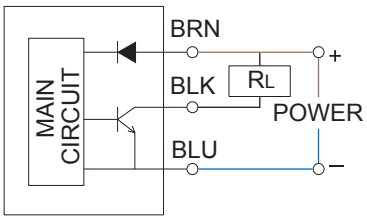
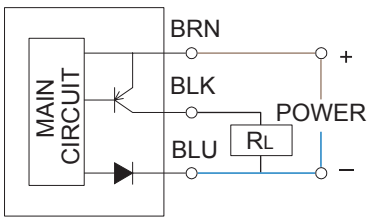
NOTE:
1.WARNING:Never exceed rating (Watt=Voltage x Amperage).Permanent demage to sensor will occur.
2.Sin wave / X,Y,Z 3 directions / 3 times each direction / 11 ms each time.

Connect Diagram

RT/RTV



RTN/RTNV



RTP/RTPV