

Miniature/lightweight & high response.

F.R.L
F (Filtr)
R (Reg)
L (Lub)
PresSW
Shutoff
SlowStart
FlmResistFR
Oil-Prohr
MedPresFR
No Cu/
PTFE FRL
Outdrs FR
F.R.L
(Related)
CompFRL
LgFRL
PrecsR
VacF/R
Clean FR
ElecPneuR
AirBoost
SpdContr
Silncr
CheckV/
other
Jnt/tube
AirUnt
PresCompn
Mech/
ElecPresSw
ContactSW
AirSens
PresSW
Cool
AirFloSens/
Contr
WaterRtSens
TotAirSys
(Total Air)
TotAirSys
(Gamma)
RefrDry
DesicDry
HiPolymDry
MainFiltr
Dischrg
etc
Ending

Demonstrates its power in confirmation of suction/release for electronic parts, etc.

Functions focus on equipment integration to create a more compact and lighter system.

Mounting at the end of the moving part adjacent to the measuring section is made possible, contributing to improved responsivity as a system.

Determination of the flow direction relating to normal-reverse inverted flow due to positive/negative pressure operation is also possible, and the wide flow rate range provides high added-value functions across a range of fields.

Miniature/lightweight/high-speed response

Flow rate switch

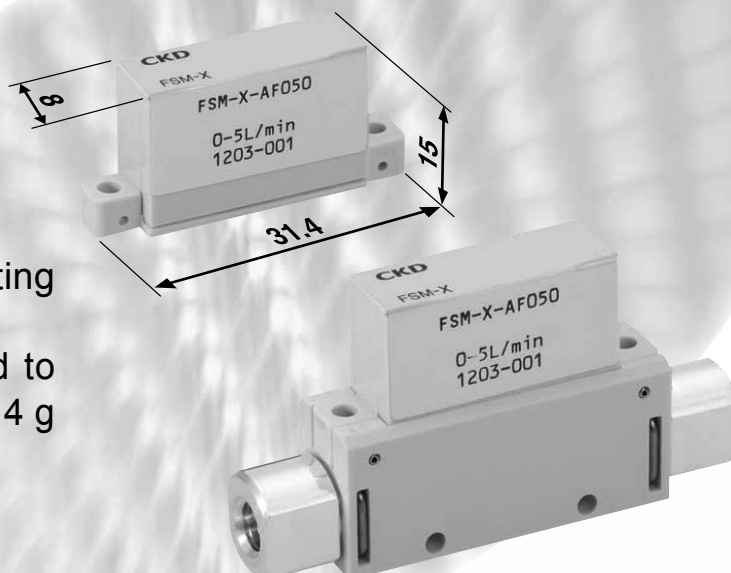
FSM-X Series

Compact body enabled by separating the sensor head.

Reduced volume by 52% compared to conventional products, light weight of 4 g and ultra-thin 8 mm are realized.

Flow rate range

± 0.5 , ± 1 , ± 5 , ± 10 , 0.5, 1, 5, 10 ℓ/min



Miniature/ultra-high-speed response
flow rate sensor

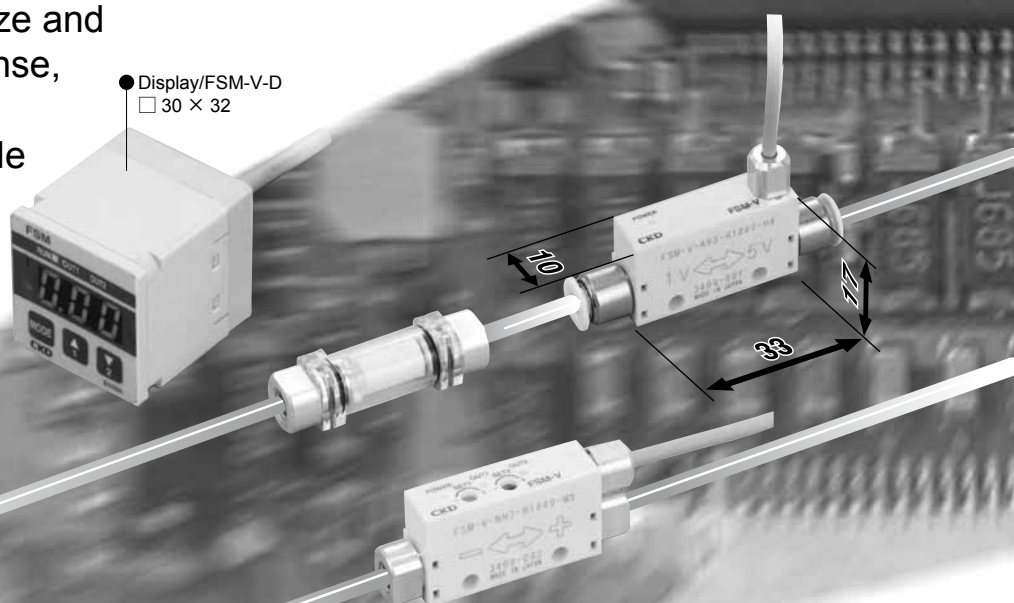
FSM-V Series

Astonishing compact size and 5 ms high-speed response, beyond all reasonable expectations, have made possible a design once abandoned.






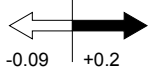
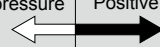
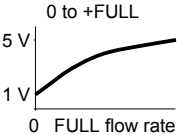
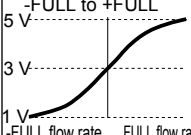
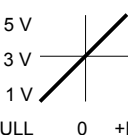
Flow rate range

± 0.05 , ± 0.1 , ± 0.5 , ± 1 , ± 5 , ± 10 ℓ/min

● Display/FSM-V-D
□ 30 × 32



RAPIFLOW Series variation

Miniature/ultra-high-speed response FSM-X Series								Miniature/ultra-high-speed response FSM-V Series								F.R.L
FSM-X-AF005	FSM-X-AF010	FSM-X-AF050	FSM-X-AF100	FSM-X-AR005	FSM-X-AR010	FSM-X-AR050	FSM-X-AR100	FSM-V-A-R0005	FSM-V-A-R0010	FSM-V-A-R0050	FSM-V-A-R0100	FSM-V-A-R0500	FSM-V-A-R1000	F (Filtr)	R (Reg)	L (Lub)
Analog output 1 point Discrete sensor head 								Analog output 1 point Separated display mountable (sold separately) 								PresSW
																Shutoff
Analog output 1 point Flow path block 								NPN output 2 points 								SlowStart
																FimResistFR
FSM-X-AF005*	FSM-X-AF010*	FSM-X-AF050*	FSM-X-AF100*	FSM-X-AR005*	FSM-X-AR010*	FSM-X-AR050*	FSM-X-AR100*	FSM-V-N-R0005	FSM-V-N-R0010	FSM-V-N-R0050	FSM-V-N-R0100	FSM-V-N-R0500	FSM-V-N-R1000	Oil-ProhR	MedPresFR	No Cu/ PTFE FRL
								PNP output 2 points 								Outdrs FR
																F.R.L (Related)
								FSM-V-P-R0005	FSM-V-P-R0010	FSM-V-P-R0050	FSM-V-P-R0100	FSM-V-P-R0500	FSM-V-P-R1000	CompFRL	LgFRL	PrecsR
Body material																VacF/R
●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	Clean FR
																ElecPneuR
																AirBoost
Port size																SpdContr
●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	Silncr
●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	CheckV/ other
●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	Jnt/tube
																AirUnt
																PrecsCompn
Full scale flow rate																Mech/ ElecPresSw
																ContactSW
																AirSens
●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	PresSW Cool
																AirFloSens/ Contr
																WaterRtSens
																TotAirSys (Total Air)
																TotAirSys (Gamma)
																RefrDry
																DesicDry
																HiPolymDry
																MainFiltr
																Dischrg etc
Non-linear								Accuracy (linearity) % F.S.								Ending
Negative pressure Positive pressure  -0.09 +0.2								Working pressure range MPa Negative pressure Positive pressure  -0.09 0.2								
0 to +FULL 								-FULL to +FULL 								
5 V 1 V 0 FULL flow rate								5 V 3 V 1 V -FULL 0 +FULL								
								Analog output (1 to 5 V)								
																

*1: Applicable only for AR type.