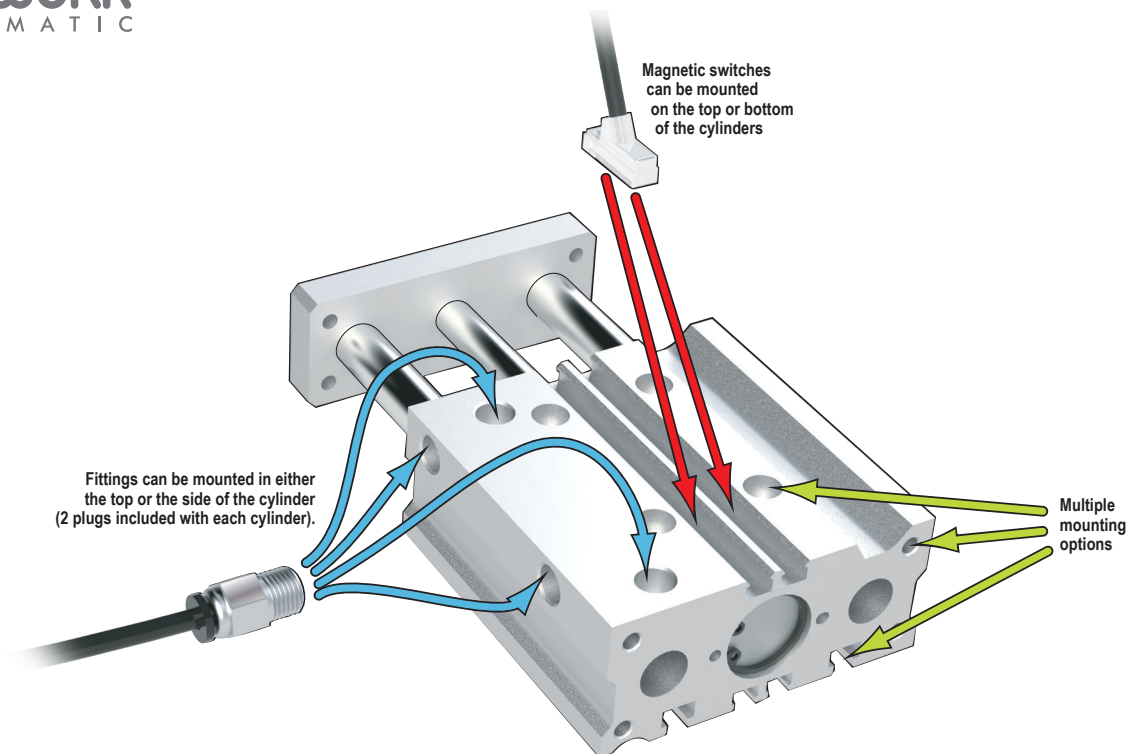




Dual Guide Rod Cylinders



Metal Work dual guide rod cylinders are a versatile solution to many applications in industrial automation. Multiple mounting options and port locations allow designers more flexibility.

Features

- Seven bore sizes
- Double-acting
- Interchangeable with other popular brands
- Work with 6.5 x 3.2mm T-slot cylinder switches
- Chrome plated steel guide rods
- Anodized aluminum tooling plate
- Nitrile / Buna-N seals



Visit www.automationdirect.com for a wide variety of application fittings.



For additional details refer to the manufacturer technical specifications by clicking or scanning the QR code



Metal Work Dual Guide Rod Cylinder Technical Specifications							
Bore Size	16mm	20mm	25mm	32mm	40mm	50mm	63mm
Operating Pressure	14.5 to 145 psi (1 to 10 bar)						
Temperature Range	14 to 176°F (-20 to 80°C)						
Fluid	Filtered air without lubrication; lubrication, if used, must be continuous						
Design	Sintered bronze bushings; Silenced						
Extend Force @ 100psi (lbf)	31.2	48.7	76.1	124.7	194.8	304.3	483.1
Retract Force @ 100psi (lbf)	23.4	36.5	58.6	93.5	163.6	255.6	434.5



Dual Guide Rod Cylinders

Part No. [W143016A050N](#)Part No. [W143020A050N](#)Part No. [W143025A050N](#)

Metal Work Dual Guide Rod Cylinder Selection

Part Number	Bore	Rod Diameter	Port Size	Stroke	Drawing Link	Weight (lbs)	Price
W143016A010N	16mm	8mm	M5 x 0.8 female ISO	10mm	PDF	0.71	\$135.00
W143016A020N				20mm	PDF	0.84	\$138.00
W143016A030N				30mm	PDF	0.96	\$141.00
W143016A040N				40mm	PDF	1.07	\$145.00
W143016A050N				50mm	PDF	1.18	\$148.00
W143016A075N				75mm	PDF	1.64	\$155.00
W143016A100N				100mm	PDF	1.93	\$163.00
W143016A125N				125mm	PDF	2.26	\$171.00
W143016A150N				150mm	PDF	2.57	\$179.00
W143016A175N				175mm	PDF	2.85	\$186.00
W143016A200N				200mm	PDF	3.13	\$194.00
W143016A250N				250mm	PDF	3.82	\$210.00
W143020A020N	20mm	10mm	G1/8 female BSPP	20mm	PDF	1.38	\$158.00
W143020A030N				30mm	PDF	1.56	\$162.00
W143020A040N				40mm	PDF	1.72	\$165.00
W143020A050N				50mm	PDF	1.90	\$169.00
W143020A075N				75mm	PDF	2.60	\$178.00
W143020A100N				100mm	PDF	3.03	\$187.00
W143020A125N				125mm	PDF	3.46	\$195.00
W143020A150N				150mm	PDF	3.92	\$204.00
W143020A175N				175mm	PDF	4.34	\$213.00
W143020A200N				200mm	PDF	4.77	\$222.00
W143020A250N				250mm	PDF	5.83	\$239.00
W143020A300N				300mm	PDF	6.63	\$257.00
W143020A350N	25mm	12mm	G1/8 female BSPP	350mm	PDF	7.57	\$275.00
W143020A400N				400mm	PDF	8.42	\$292.00
W143025A020N				20mm	PDF	2.32	\$178.00
W143025A030N				30mm	PDF	2.59	\$183.00
W143025A040N				40mm	PDF	2.88	\$187.00
W143025A050N				50mm	PDF	3.16	\$191.00
W143025A075N				75mm	PDF	4.48	\$201.00
W143025A100N				100mm	PDF	5.12	\$212.00
W143025A125N				125mm	PDF	5.77	\$222.00
W143025A150N				150mm	PDF	6.45	\$233.00
W143025A175N				175mm	PDF	7.14	\$243.00
W143025A200N				200mm	PDF	7.74	\$254.00
W143025A250N				250mm	PDF	9.12	\$275.00
W143025A300N				300mm	PDF	10.43	\$296.00
W143025A350N				350mm	PDF	12.00	\$317.00
W143025A400N				400mm	PDF	13.20	\$338.00



Dual Guide Rod Cylinders

Part No. [W143032A050N](#)Part No. [W143040A050N](#)Part No. [W143050A050N](#)

Metal Work Dual Guide Rod Cylinder Selection

Part Number	Bore	Rod Diameter	Port Size	Stroke	Drawing Link	Weight (lbs)	Price
W143032A025N	32mm	16mm	G1/8 female BSPP	25mm	PDF	3.42	\$218.00
W143032A050N				50mm	PDF	4.26	\$233.00
W143032A075N				75mm	PDF	5.09	\$270.00
W143032A100N				100mm	PDF	5.93	\$262.00
W143032A125N				125mm	PDF	6.75	\$277.00
W143032A150N				150mm	PDF	7.62	\$292.00
W143032A175N				175mm	PDF	8.44	\$306.00
W143032A200N				200mm	PDF	9.34	\$321.00
W143032A250N				250mm	PDF	11.76	\$351.00
W143032A300N				300mm	PDF	13.23	\$380.00
W143032A350N				350mm	PDF	14.96	\$409.00
W143032A400N				400mm	PDF	16.65	\$439.00
W143040A025N	40mm	16mm	G1/8 female BSPP	25mm	PDF	4.08	\$234.00
W143040A050N				50mm	PDF	4.93	\$250.00
W143040A075N				75mm	PDF	5.89	\$266.00
W143040A100N				100mm	PDF	6.86	\$282.00
W143040A125N				125mm	PDF	7.81	\$297.00
W143040A150N				150mm	PDF	8.74	\$313.00
W143040A175N				175mm	PDF	9.75	\$329.00
W143040A200N				200mm	PDF	10.70	\$345.00
W143040A250N				250mm	PDF	13.15	\$376.00
W143040A300N				300mm	PDF	15.03	\$408.00
W143040A350N				350mm	PDF	16.95	\$439.00
W143040A400N				400mm	PDF	19.07	\$471.00
W143050A025N	50mm	20mm	G1/4 female BSPP	25mm	PDF	6.19	\$251.00
W143050A050N				50mm	PDF	7.66	\$305.00
W143050A075N				75mm	PDF	9.74	\$321.00
W143050A100N				100mm	PDF	11.11	\$337.00
W143050A125N				125mm	PDF	12.51	\$353.00
W143050A150N				150mm	PDF	13.97	\$369.00
W143050A175N				175mm	PDF	15.29	\$385.00
W143050A200N				200mm	PDF	16.74	\$400.00
W143050A250N				250mm	PDF	20.38	\$431.00
W143050A300N				300mm	PDF	23.15	\$463.00
W143050A350N				350mm	PDF	26.05	\$494.00
W143050A400N				400mm	PDF	28.79	\$526.00



Dual Guide Rod Cylinders



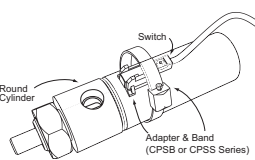
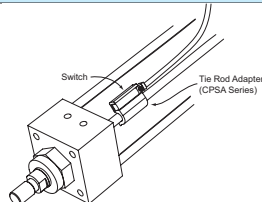
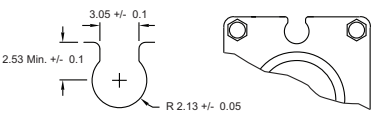
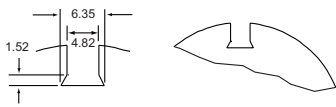
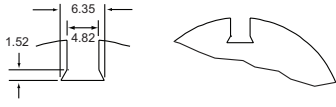
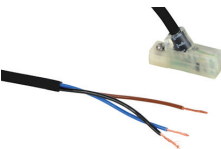
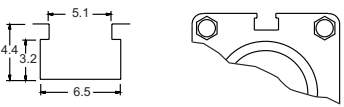
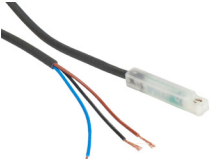
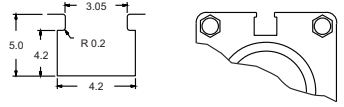
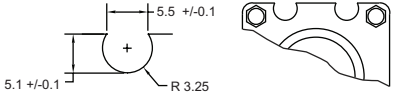
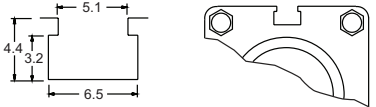
Part No. [W143063A050N](#)

Metal Work Dual Guide Rod Cylinder Selection							
Part Number	Bore	Rod Diameter	Port Size	Stroke	Drawing Link	Weight (lbs)	Price
W143063A025N	63mm	20mm	G1/4 female BSPP	25mm	PDF	7.61	\$362.00
W143063A050N				50mm	PDF	9.37	\$387.00
W143063A075N				75mm	PDF	11.67	\$411.00
W143063A100N				100mm	PDF	13.35	\$435.00
W143063A125N				125mm	PDF	15.05	\$459.00
W143063A150N				150mm	PDF	16.64	\$483.00
W143063A175N				175mm	PDF	18.32	\$508.00
W143063A200N				200mm	PDF	19.97	\$532.00
W143063A250N				250mm	PDF	24.09	\$580.00
W143063A300N				300mm	PDF	27.52	\$628.00
W143063A350N				350mm	PDF	30.84	\$676.00
W143063A400N				400mm	PDF	34.12	\$725.00



CPS Series Cylinder Position Switches

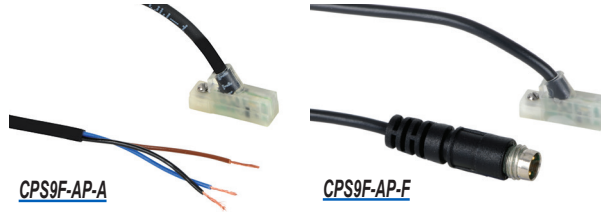
Position Switch Cross Reference Chart

NITRA Switch Type	Cylinder Brand (may fit some of these cylinders)	Photo Example	Groove Illustration	
CPS CPSF	NITRA A-Series NITRA D-Series NITRA F-Series Metal Work ISO-6432			
CPS9C	DE-STA-CO Robohand SMC Compact Air Bimba Fabco			
CPS9D	NITRA L-Series Fabco Numatics Rotomation			
CPS9E	NITRA L-Series Fabco Numatics Rotomation			
CPS9F	NITRA G-Series Fabco Festo Numatics Rotomation Metal Work Dual Rod			
CPS9H	NITRA E-Series NITRA H-Series			
CPS9M	Norgren			
CPS9Q	NITRA L-Series NITRA G-Series Parker Fabco Festo Numatics Rotomation Metal Work Dual Rod			



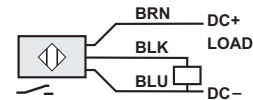
CPS9F Series Cylinder Position Switches

NITRA CPS9F Series cylinder position switches are general purpose switches for use with cylinders having a magnetic piston. The switches are designed to mount on cylinders with 6.5 x 3.2 mm T-slots.

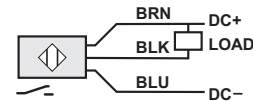


Wiring

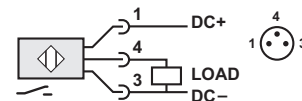
NITRA CPS9F Series Cylinder Position Switches				
Part No.	Description	Price	Weight (lbs)	
CPS9F-AP-A	Pneumatic cylinder switch, for position sensing, magnetic, rectangular, normally open, 3-wire, 5-28 VDC, electronic PNP transistor output, status LED, 9.8 ft. (3.0m) cable with wire leads. Can be mounted on cylinders with 6.5 x 3.2 mm T-slots.	\$17.50	0.2	
CPS9F-AN-A	Pneumatic cylinder switch, for position sensing, magnetic, rectangular, normally open, 3-wire, 5-28 VDC, electronic NPN transistor output, status LED, 9.8 ft. (3.0m) cable with wire leads. Can be mounted on cylinders with 6.5 x 3.2 mm T-slots.	\$17.50	0.2	
CPS9F-AP-F	Pneumatic cylinder switch, for position sensing, magnetic, rectangular, normally open, 3-wire, 5-28 VDC, electronic PNP transistor output, status LED, 0.5 ft. (0.15m) cable with M8 snap-fit connector. Can be mounted on cylinders with 6.5 x 3.2 mm T-slots.	\$17.50	0.2	
CPS9F-AN-F	Pneumatic cylinder switch, for position sensing, magnetic, rectangular, normally open, 3-wire, 5-28 VDC, electronic NPN transistor output, status LED, 0.5 ft. (0.15m) cable with M8 snap-fit connector. Can be mounted on cylinders with 6.5 x 3.2 mm T-slots.	\$17.50	0.2	



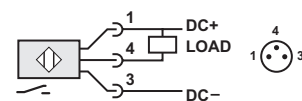
[CPS9F-AP-A](#)



[CPS9F-AN-A](#)



[CPS9F-AP-F](#)

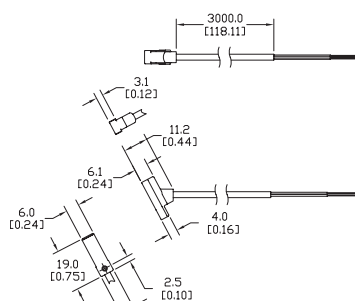


[CPS9F-AN-F](#)

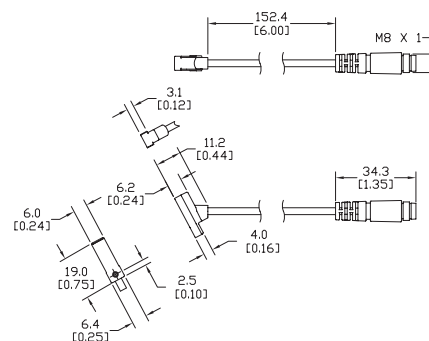
NITRA CPS9F Series Cylinder Switch Specifications	
Operating Voltage	5-28 VDC
Voltage Drop	1.0 V
Current Rating	0.2 Amps Max.
Wire Size	26AWG (0.13mm ²)
Switching Power	4.8 watts Max.
Switching Speed	4μs operate / 4μs release
Short Circuit Protection	No
Reverse Polarity Protection	Yes
Overload Protection	No
Leakage Current	< 0.01 mA
Sensing Technology	GMR
Off Delay Time	150-200 ms
Function Display	PNP switching status yellow / NPN switching status red
Switching Frequency	< 1000 Hz
Magnetic Sensitivity	2.5 millitesla (25 gauss)
Housing Materials	Zytel
Operating Temperature	-4°F to 176°F (-20°C to 80°C)
Protection Rating	NEMA 6 / IP 67
Agency Approvals	CE, RoHS, REACH

Dimensions

mm [inches]



[CPS9F-xx-A](#) wire length tolerance +12" / - 0"



[CPS9F-xx-F](#) cable length tolerance w 1.5"



CPS9Q Series Cylinder Position Switches

NITRA CPS9Q Series cylinder position switches are general purpose switches for use with cylinders having a magnetic piston. The switches are designed to mount on cylinders with a 6.5 x 3.2 mm T-slot channel.



CPS9Q-AP-A

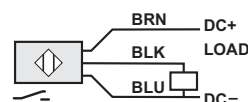
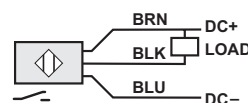
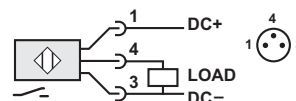
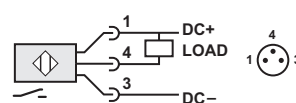


CPS9Q-AP-F



Wiring

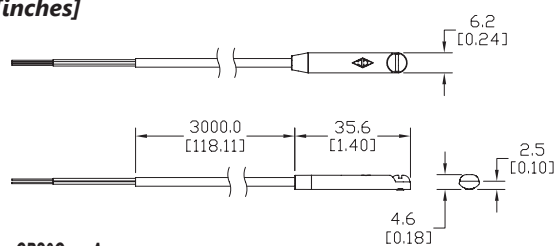
NITRA CPS9Q Series Cylinder Position Switches			
Part No.	Description	Price	Weight (lbs)
CPS9Q-AP-A	Pneumatic cylinder switch, for position sensing, magnetic, rectangular, normally open, 3-wire, 5-28 VDC, electronic PNP transistor output, status LED, 9.8 ft. (3.0m) cable with wire leads. Low profile housing that can be mounted on cylinders with 6.5 x 3.2 mm T-slots.	\$19.00	0.2
CPS9Q-AN-A	Pneumatic cylinder switch, for position sensing, magnetic, rectangular, normally open, 3-wire, 5-28 VDC, electronic NPN transistor output, status LED, 9.8 ft. (3.0m) cable with wire leads. Low profile housing that can be mounted on cylinders with 6.5 x 3.2 mm T-slots.	\$19.00	0.2
CPS9Q-AP-F	Pneumatic cylinder switch, for position sensing, magnetic, rectangular, normally open, 3-wire, 5-28 VDC, electronic PNP transistor output, status LED, 0.5 ft. (0.15m) cable with M8 snap-fit connector. Low profile housing that can be mounted on cylinders with 6.5 x 3.2 mm T-slots.	\$19.00	0.2
CPS9Q-AN-F	Pneumatic cylinder switch, for position sensing, magnetic, rectangular, normally open, 3-wire, 5-28 VDC, electronic NPN transistor output, status LED, 0.5 ft. (0.15m) cable with M8 snap-fit connector. Low profile housing that can be mounted on cylinders with 6.5 x 3.2 mm T-slots.	\$19.00	0.2

[CPS9Q-AP-A](#)[CPS9Q-AN-A](#)[CPS9Q-AP-F](#)[CPS9Q-AN-F](#)

NITRA CPS9Q Series Cylinder Switch Specifications	
Operating Voltage	5-28 VDC
Voltage Drop	1.0 V
Current Rating	0.2 Amps Max.
Wire Size	26AWG (0.13mm ²)
Switching Power	4.8 watts Max.
Switching Speed	4μs operate / 4μs release
Short Circuit Protection	No
Reverse Polarity Protection	Yes
Overload Protection	No
Leakage Current	< 0.01 mA
Sensing Technology	GMR
Off Delay Time	150-200 ms
Function Display	PNP switching status yellow / NPN switching status red
Switching Frequency	< 1000 Hz
Magnetic Sensitivity	2.5 millitesla (25 gauss)
Housing Materials	Ultem
Operating Temperature	-4°F to 176°F (-20°C to 80°C)
Protection Rating	NEMA 6 / IP 67
Agency Approvals	CE, RoHS, REACH

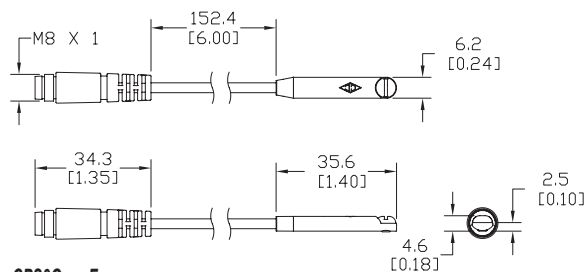
Dimensions

mm [inches]



CPS9Q-xx-A

wire length tolerance +12" / -0"



CPS9Q-xx-F

cable length tolerance w 1.5"