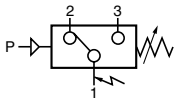
ADJUSTABLE PRESSURE SWITCH

with or without protection and status indicators
G 1/4 or subbase mounted body



Series **349**

GENERAL

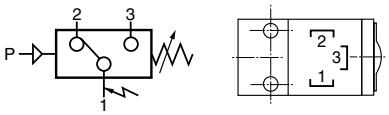
		WITHOUT	WITH
PROTECTION AND STATUS INDICATORS			
FLUID	:	Air or neutral gas, filtered, lubricated or dry	
PRESSURE SETTING	:	0,5 to 10 bar (0,2 - 6 bar on request)	
HYSTERESIS	:	0,4 bar at the beginning of adjustment range 1 bar at the end of adjustment range	
MAX. PRESSURE (PMA)	:	10 bar or 16 bar	
OPERATING TEMPERATURE	:	-10°C; +60°C	: 0°C, +60°C
MAX. VOLTAGE	:	250 V - AC/DC	: 24 V DC
CURRENT BREAKING CAPACITY	:	5 A - 250 V resistive	: 2 A - 24 V DC resistive
PROTECTION DEGREE	:	IP65	
MOUNTING POSITIONS	:	all positions	
MAX. SPEED	:	60 cycles per minute	

CONSTRUCTION

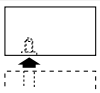
Bodies: PC (polycarbonate) / aluminium for 16 bar version
Nitrile (NBR) seals
Commutator (reversing switch) • at rest : contact 1 - 2 made
• at work : contact 1 - 3 made
Mechanical service life: 5.10^6 contacts
Pressure set by set screw and lock-nut



ELECTRICAL CONNECTION



SPECIFICATIONS

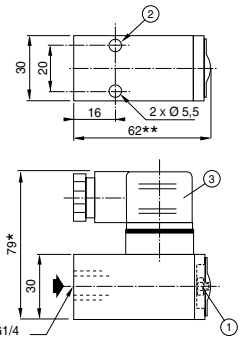
Type	Designation	Pressure setting (bar)	catalogue number Without protection	catalogue number With protection
	Adjustable pressure switch with side pneumatic connection, **tapped** G1/4	0,2 - 6 0,5 - 10 0,5 - 16	**34900015** **34900018** **34900021**	- **34900019** -
	Adjustable pressure switch with **subbase mounted** pneumatic connection (version adaptable on FRL)	0,5 - 10	**34900030**	**34900031**

DIMENSIONS AND WEIGHT

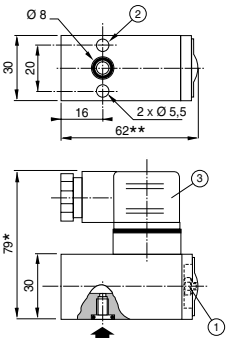
Weight: 110 g

Version **without** protection and status indicators

Tapped

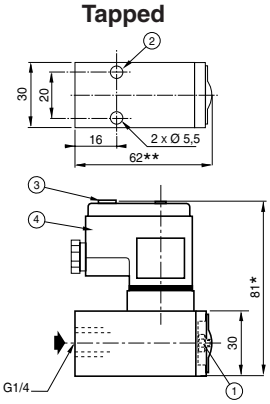


subbase mounted

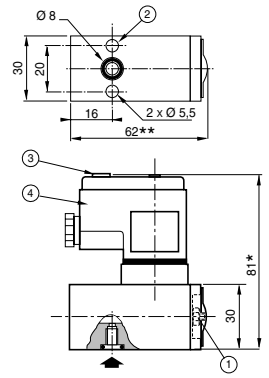


Version **with** protection and status indicators

Tapped

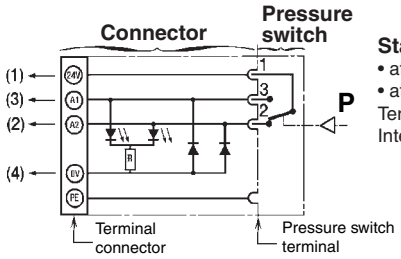


subbase mounted



(1) Pressure set screw (spanner for hexagon nuts: 3 mm)
(2) 2 holes Ø 5,5 for mounting
(3) ISO4400 size 30 connector, 4 terminals, rotatable by 90°
❊ +15 mm for connector clearance
❊❊ +2 mm for 0,5 - 16 bar version

ELECTRICAL DIAGRAM



Status indicated by two diodes :
• at rest : contact 1-2 made: orange diode lights
• at work : contact 1-3 made: red diode lights
Terminal connection for 1,5 mm² wire
Integrated interference blanking

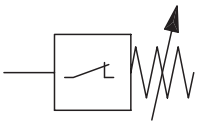
(1) Pressure set screw (spanner for hexagon nuts: 3 mm)
(2) 2 holes Ø 5,5 for mounting
(3) Identification label holder
(4) ISO 4400 size 30 connector, 4 terminals (**not rotatable**)
❊ +15 mm for connector clearance
❊❊ +2 mm for 0,5 - 16 bar version

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DIAPHRAGM PRESSURE SWITCHES

G1/8 - G1/4 external threaded body



Series **349**



GENERAL

Fluid	Air or neutral gas, filtered, lubricated or dry
Maximum allowable pressure (MAP)	16 bar
Control range	0 - 10 bar
Fluid temperature	-10°C to +60°C
Max. speed	60 cycles per minute
Hysteresis	0,2 bar at the beginning of control range
Mechanical service life	10^6 contacts
Mounting positions	All positions

CONSTRUCTION

Body	Steel
Seals	FPM (fluoroelastomer)
Pressure set	By set screw

ELECTRICAL CHARACTERISTICS

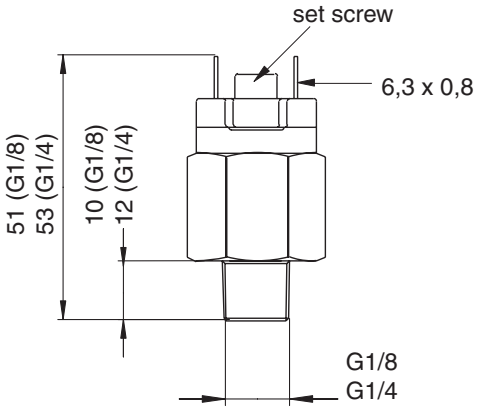
Max. switched voltage	48 V DC
Max. switched current	0,5 A
Electric contact	Plated silver

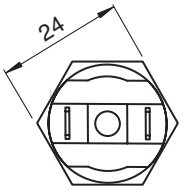
SPECIFICATIONS

designation		control range (bar)	maximum allowable pressure (MAP) (bar)	catalogue number
Diaphragm pressure switch, NC, adjustable, pneumatic connection	G 1/8	1 - 10	16	**34900048**
	G 1/4			**34900049**

DIMENSIONS (mm), WEIGHT (kg)

weight
0,065



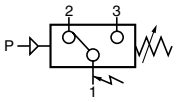


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ELECTRONIC PRESSURE SWITCH

Hysteresis and comparator functions - Digital display

G1/8



Series **349**

GENERAL

FLUID	: air or neutral gas, filtered, not lubricated, free of condensate
CONNECTION	: G1/8
PRESSURE RANGE	: 0 to 10 bar
MAX. OVERPRESSURE	: 15 bar
OPERATING TEMPERATURE	: 0°C, +50°C (storage: -20°C, +60°C)
ELECTRICAL CONNECTION	: 4-pin M8 connector
SUPPLY VOLTAGE	: 12 to 24 volts, max. ripple 10%, reverse voltage protection
CONSUMPTION	: < 55mA
VOLTAGE SPIKE	: 350 V Peak, 1µs
ACCURACY	: +/- 200 mbar (2% of full range)
DIGITAL DISPLAY	: 3-digit - 7 segments - display frequency : 5 Hz
UNITS OF MEASURE	: bar - psi - MPa - kgf/cm^2
OUTPUTS	: 2 PNP outputs selectable NO or NC, max. load current 80 mA, 30 V, with overcurrent protection, status indication by LED
2 OUTPUT MODES	: - hysteresis 0 to 100 % of full range - window comparator: 2 limit values adjustable over full range
RESPONSE TIME	: < 2,5 ms - 24 ms - 192 ms - 768 ms
PROTECTION DEGREE	: IP65
VIBRATION RESISTANCE	: 10 to 55 Hz, 1.5 mm, XYZ, 2 hours
SHOCK RESISTANCE	: 980 m/s² (100G), XYZ



CARACTERISTICS

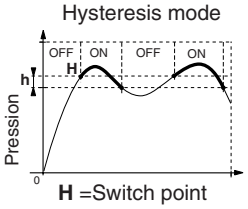
Recording of peak value and bottom value
Lockout feature

CONSTRUCTION

Polycarbonate body (PC)
NBR (nitrile) sealings

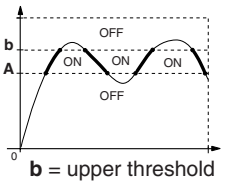
OPERATING

Hysteresis mode



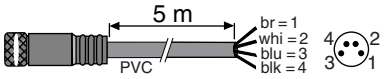
H =Switch point
h = hysteresis

Comparator mode



b = upper threshold
A = lower threshold

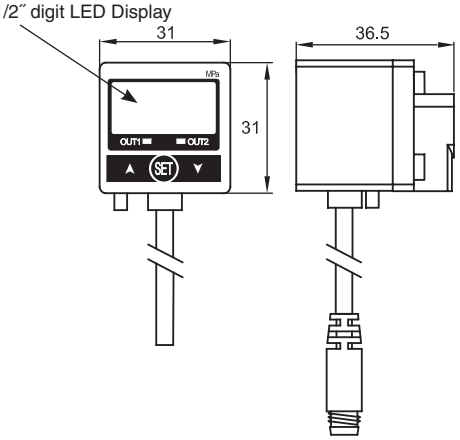
SPECIFICATIONS

description	catalogue number
electronic pressure switch with digital display adjustable from 0 to 10 bar, pneumatic connection **G1/8** (delivered with 2 brackets, 1 plug G1/8)	**34900050**
panel mounting kit for electronic presure switch 	**88100967**
straight female connector Ø M8, 4 wires, IP65, with 5 m PVC lead (other end plain) 	**88157771**

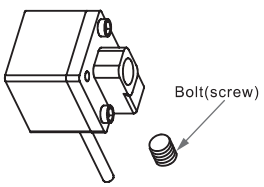
DIMENSIONS AND WEIGHT

Weight: 105 g

3 1/2″ digit LED Display



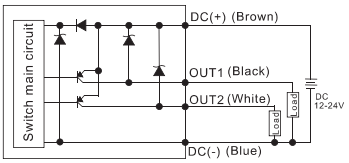
2 inlet pressure ports G1/8



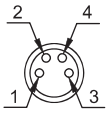
ELECTRICAL DIAGRAM

Pressure switch User connection

PNP output



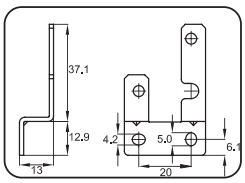
ELECTRICAL CONNECTION



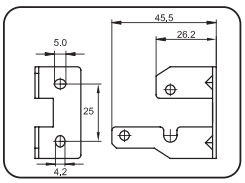
1 = brown (V +)
2 = white (output 2)
3 = blue (V -)
4 = black (output 1)

ACCESSOIRIES

BRACKET MOUNTING

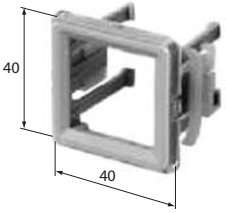


Bracket for vertical mounting

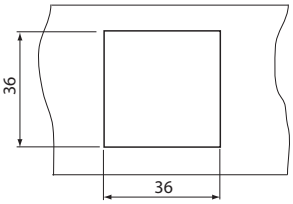


Bracket for horizontal mounting

PANEL MOUNTING KIT



Housing



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