S STRÁNSKÝ **A** PETRŽÍK

Digital pressure switch, type MP48E with threads G1/8" and M5
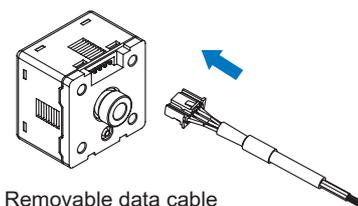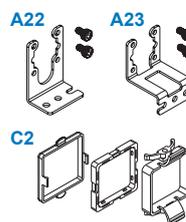
Order codes

PMP45P– <u>030</u> –F3

Output	
010	2x NPN + 1 analog output 0-10V
011	2x NPN + 1 analog output 4-20mA
030	2x PNP + 1 analog output 0-10V
031	2x PNP + 1 analog output 4-20mA
02R	1x NPN + RS485
04R	1x PNP + RS485

Order codes of accessories

Description	Order codes
Bracket A22	PMP-A22
Bracket A23	PMP-A23
Panel mounting adapter with protective cover C2	PMP-C2

A22   A23

C2

Removable data cable

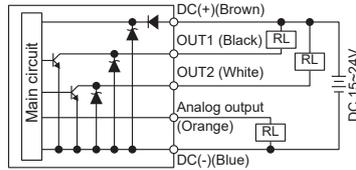| Description	Value
Rated pressure range [MPa]	-0,1 to 1,0
Thread	G1/8" external and M5 internal
Max. pressure [MPa]	1,5
Working medium	air, non-corrosive gases, incombustible gases
Supply voltage [V]	15 to 24, DC (± 10%)
Current consumption [mA]	≤40 (no load)
Comparative output	2x PNP/NPN output, current max. 150 mA, voltage max. 30V DC, residual voltage 1V
Comparative output indication	orange indicator for both outputs
Analog voltage output	output voltage 0 to 10 V or 1 to 5 V ±0,5%, linearity ±0,5% F.S., output impedance approx. 2 kΩ
Analog current output	output current 4 to 20 mA ±0.5%, linearity ±0.5% F.S., load impedance: min. 50 Ω, max. 250 Ω at 12 V, max. 600 Ω at 24 V
Communication interface	RS485 Modbus RTU (only for output 02R and 04R)
Units and resolution	MPa: 0,001, bar/ kgf/cm²: 0,001, PSI: 0,01
Hysteresis	adjustable, 1-8 digit for one-point set and window comparator mode
Repeatability	±0,2% F.S. ±1 digit
Indicator accuracy	±0,5% F.S. ±1 digit (at 25 ±3 ˚C)
Temperature characteristic	±0.5% F.S. of detected pressure (25 ˚C) at range 0 - 50 ˚C
Response time [ms]	adjustable 6 to 3000 in 8 steps
Short circuit protection	integrated
Display	4 ½ digits, 7 segments, red/white/pink/orange, sampling rate 0,2, 0,5, 1 s
Enclosure	IP40
Ambient temperature range [˚C]	0 to +50 (no condensation or freezing), storage: -10 to +60
Ambient humidity [%]	35 to 85
Cable	5-wire, section 0,15 mm², length 2m, removable
Weight [kg]	0,067 incl. cable

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Wiring diagrams

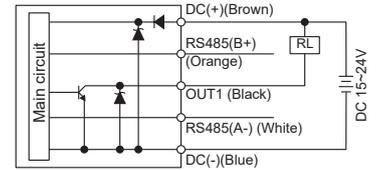### Output 010
2x NPN + 1 analog output 0-10V

DC(+)(Brown)
(Orange)
Analog output
OUT1 (Black)
OUT2 (White)
DC(-)(Blue)
2kΩ
RL
RL
DC 15~24V
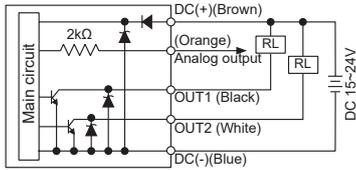
Output 011
2x NPN + 1 analog output 4-20mA

DC(+)(Brown)
OUT1 (Black)
OUT2 (White)
Analog output
(Orange)
DC(-)(Blue)
RL
RL
DC 15~24V

Output 02R
1x NPN + RS485

DC(+)(Brown)
RS485(B+)
(Orange)
OUT1 (Black)
RS485(A-) (White)
DC(-)(Blue)
RL
DC 15~24V

Output 030
2x PNP + 1 analog output 0-10V

DC(+)(Brown)
OUT1 (Black)
OUT2 (White)
2kΩ
Analog output
(Orange)
DC(-)(Blue)
RL
DC 15~24V
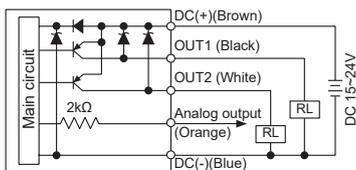
Output 031
2x PNP + 1 analog output 4-20mA

DC(+)(Brown)
Analog output (Orange)
OUT1 (Black)
OUT2 (White)
DC(-)(Blue)
RL
RL
DC 15~24V

Output 04R
1x PNP + RS485

DC(+)(Brown)
OUT1 (Black)
RS485(A-) (White)
RS485(B+)
(Orange)
DC(-)(Blue)
RL
DC 15~24V

Dimensions

30
30
36.3
21.3
1.55
G1/8", M5×0.8
Hex flat 12
20
M3 female thread
20
M5 female thread
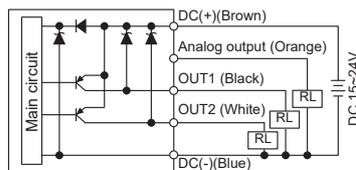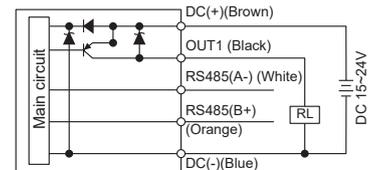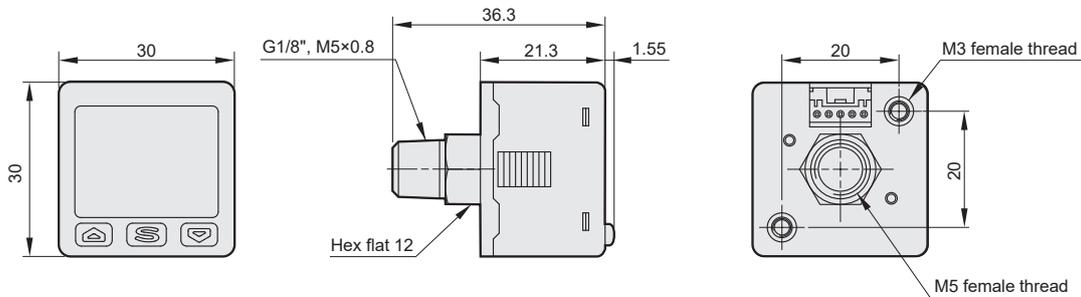
Accessories for digital pressure switch MP48E

Bracket A22

M3×0.5
1.5
20
13
ø3.5
43.5
20
20
20
29.5
ø4.2
4.2
8

Bracket A23

M3×0.5
1.5
20
13
ø3.5
43.5
15
30
ø4.2
6.1
20
4.2
20
29.5

Panel mounting adapter with protective cover C2

31×31±0.4 mm
t ≤ 4.5mm
8.5
(43)
34.4
34.4
4
34.4
30.2
30.2
34.4
12.8
33
30.2
30.2
33
50.4