

Series 09 – 6 Pushbuttons / BASIC

Rugged Keypad

Technical Specifications

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Rugged Keypad

The keypad BASIC is designed for E1 application and developed according to IATF16949. *These robust individual control units can be combined together into an array of modules and are ideally suited for use in heavy duty and special vehicles.*

The Series 09 Keypad BASIC with 6 pushbuttons and hardwired connection is ideally suited for safe control and monitoring of heavy duty vehicles and machines as well as special vehicles. The IP67 front side protection degree ensures device robustness and longevity in the driver's cab or on a control station. The bright symbol illumination enables safe operation, even in low light conditions or at night. The modular design allows customer-specific adaptation and arrangement of the symbol inserts for maximum flexibility.

Mechanical specifications

- Actuating force: 5-13 N
- Overload: 250 N
- Service life of up to 1 million switching cycles

Connector

- Würth Elektronik WR-MPC3, Dual Row, 16-pins

Electrical specifications

- Operating voltage range: 8-32 VDC

Illumination

LED symbol illumination

- Colour: white
- Luminance: 20 cd/m²

LED halo ring illumination

- Single colour: red (standard), other colours on request
- Luminance: 750 cd/m²

Symbols

- Symbols in accordance with ISO 7000
- Customer-specific symbols on request

Degree of protection

- Front: IP6K7 (screw in)

Environmental specifications

- Operating temperature: -40°C to +85°C
- Storage temperature: -40°C to +85°C

Approvals and conformities

- E1
- CE
- IATF 16949 QMS

Standards

Electrical/electronical requirements

- ISO 16750-2:2012-11
- ISO 10605:2008-07

Mechanical requirements

- ISO 16750-3:2012-12

Climatical requirements

- ISO 16750-4:2010-04 Code G (-40°C - 85°C)
- ISO 4892-2:2013, methode A
- ISO 20653, IP6K7 front side

Chemical requirements

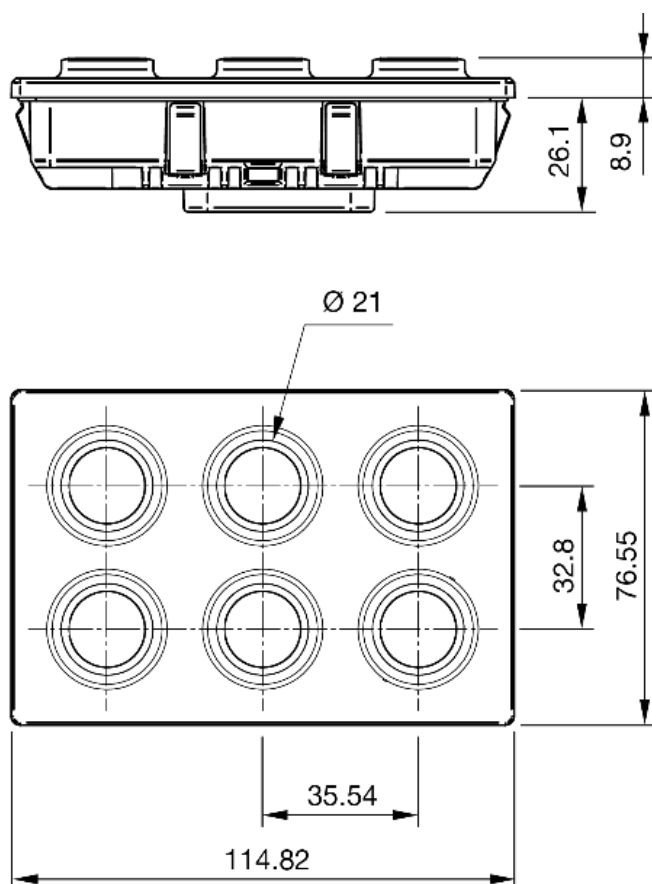
- ISO 16750-5:2010-04

Advantages.

- Red LED halo ring illumination for quick recognition of status
- Developed according to IATF16949
- Robust, innovative, ergonomic design sealed up to IP6K7 front protection
- Simple and quick installation with screw-in and clip-in mounting
- Clearly visible white backlit symbol illumination and red halo ring illumination working independently
- Interchangeable ISO 7000 or customised symbols

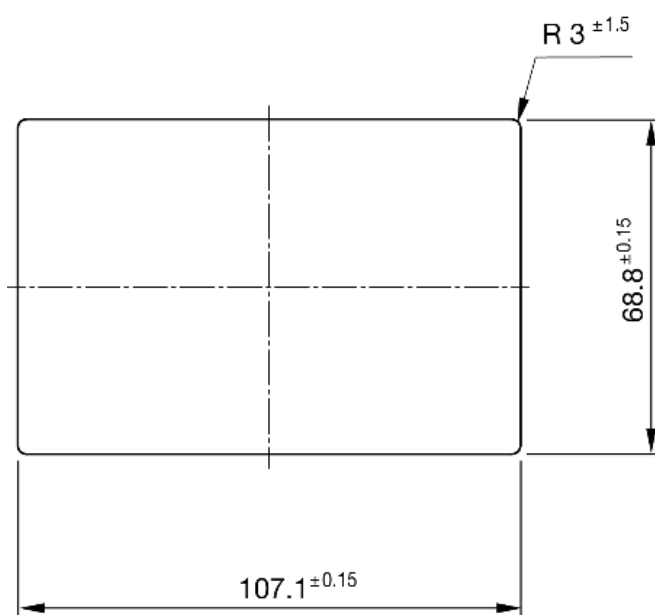
Dimensions

(All dimensions in mm)

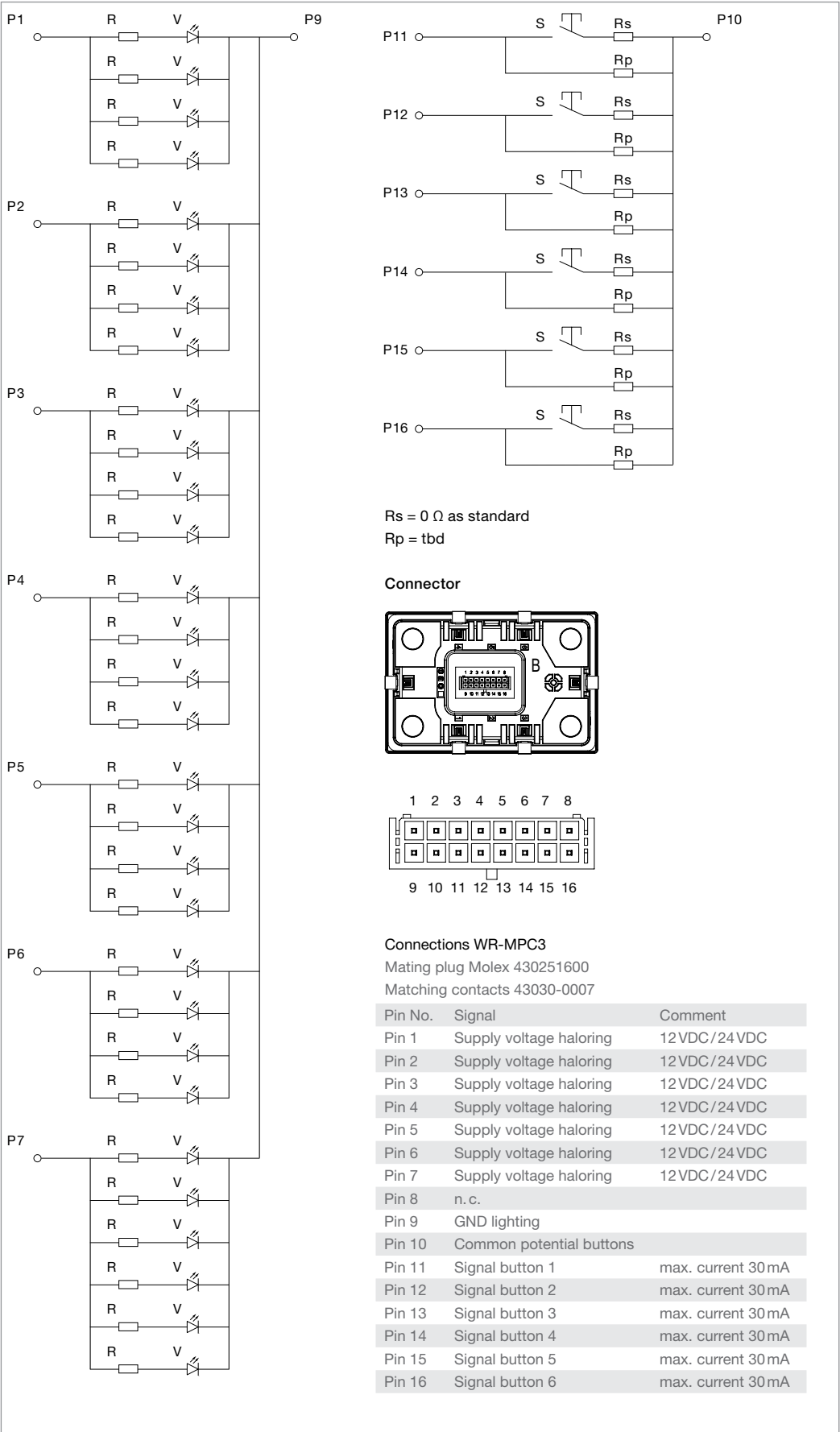


Mounting cut-out

(Panel thickness between 1.0 mm and 4.0 mm)



Wiring diagram, connector



P5

R

V

R

V

R

V

R

V

R

V

P6

R

V

R

V

R

V

R

V

R

V

P7

R

V

R

V

R

V

R

V

R

V

P9

P11

S

Rs

Rp

P12

S

Rs

Rp

P13

S

Rs

Rp

P14

S

Rs

Rp

P15

S

Rs

Rp

P16

S

Rs

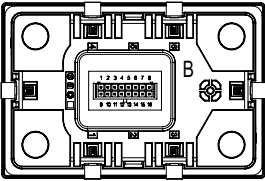
Rp

P10

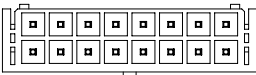
Rs = 0 Ω as standard

Rp = tbd

Connector



1 2 3 4 5 6 7 8



9 10 11 12 13 14 15 16

Connections WR-MPC3

Mating plug Molex 430251600

Matching contacts 43030-0007

Pin No.	Signal	Comment
Pin 1	Supply voltage haloring	12 VDC / 24 VDC
Pin 2	Supply voltage haloring	12 VDC / 24 VDC
Pin 3	Supply voltage haloring	12 VDC / 24 VDC
Pin 4	Supply voltage haloring	12 VDC / 24 VDC
Pin 5	Supply voltage haloring	12 VDC / 24 VDC
Pin 6	Supply voltage haloring	12 VDC / 24 VDC
Pin 7	Supply voltage haloring	12 VDC / 24 VDC
Pin 8	n.c.	
Pin 9	GND lighting	
Pin 10	Common potential buttons	
Pin 11	Signal button 1	max. current 30 mA
Pin 12	Signal button 2	max. current 30 mA
Pin 13	Signal button 3	max. current 30 mA
Pin 14	Signal button 4	max. current 30 mA
Pin 15	Signal button 5	max. current 30 mA
Pin 16	Signal button 6	max. current 30 mA

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