

# EVA Piezo

## Factsheet



### Piezo M20/M30

#### Technical Data

##### Electrical Data

|                               |                                                          |
|-------------------------------|----------------------------------------------------------|
| Switching Function            | Momentary                                                |
| Supply Voltage RGB            | 5 - 28 VDC                                               |
| Switching Voltage             | Max. 42 / 60 VAC/DC                                      |
| Switching current             | Max. 100 mA                                              |
| Electrical Rating             | 1 W                                                      |
| Lifetime                      | 20 million actuations at rated switching capacity        |
| Switch Resistance OFF         | > 10 MΩ                                                  |
| Switch Resistance ON          | < 20Ω actuated (Ta = 25°C)                               |
| Capacity                      | 5 nF                                                     |
| N.O. Closing Impulse Duration | 20- 1000 ms depending on actuating force, time and speed |
| Contact Configuration         | Free polarity                                            |

##### RGB Illumination

|                                      |                 |
|--------------------------------------|-----------------|
| Current Consumption (max per colour) | 16.5 mA @ 5 VDC |
|                                      | 8.2 mA @ 12 VDC |
|                                      | 5.5 mA @ 24 VDC |
|                                      | 4.8 mA @ 28 VDC |

##### Mechanical Data

|                       |                              |
|-----------------------|------------------------------|
| Actuating Force       | ≤ 3 N at ambient temperature |
| Actuating Travel      | 0.002 mm                     |
| Shock Protection      | IK02                         |
| Mounting screw torque | 2.5Nm                        |

##### Climatical Data

|                                        |                                                   |
|----------------------------------------|---------------------------------------------------|
| Operating Temperature                  | -40 to 85°C                                       |
| Storage Temperature                    | -40 to 85°C                                       |
| IP-Protection                          | IP67 acc. to IEC 60529, IP69K acc. to DIN 40050-9 |
| Environmental Assessment               | +55°C / 93% r.h. acc. to DIN EN 60068-2-30        |
| Salt Spray Test (acc. to DIN 50021-SS) | 24 h / 48 h / 96 h Residence Time                 |

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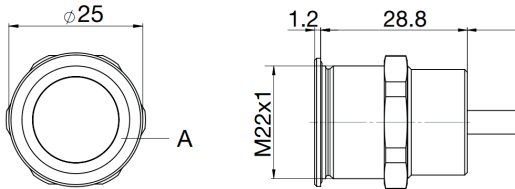
Material

|                                                  |                        |
|--------------------------------------------------|------------------------|
| Housing (depending on type)                      | Stainless steel 1.4462 |
| Actuating Area / Insert (with Ring Illumination) | Stainless steel 1.4462 |
| Illuminated Ring (Ring Illumination)             | Polyamide              |

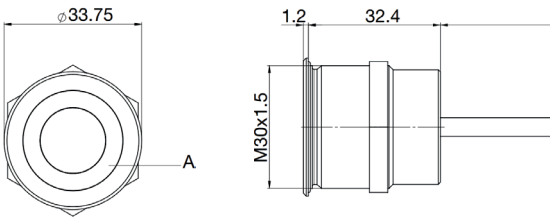
Cable specification

|              |                                               |
|--------------|-----------------------------------------------|
| Cable type   | PUR black 6x 0.25mm <sup>2</sup>              |
| Cable length | Standard cable length 15 meters               |
| End wire     | 25mm dismanteled, 4mm stripped and tin coated |

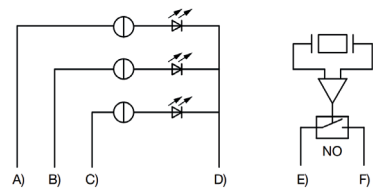
Dimension M20 (mm)



Dimension M30 (mm)



Wire colours



- A) Pink cable - red led
- B) Green cable - green led
- C) Yellow cable - blue led
- D) Cable 4 brown - ground
- E) Cable 5/6 white - pulse/switch
- F) Cable 5/6 white - pulse/switch