



Capacity from 50 kg to 500 kg



- ALUMINUM ALLOY
- COMBINED ERROR  $\leq \pm 0.02\%$  (0.017% C4)
- PROTECTION CLASS IP65

| CAPACITY | kg | ACCURACY CLASS |    | IECEx | Ex | EAC | EAC Ex | PLATFORM (mm) | NET WEIGHT (kg) | CODE   |
|----------|----|----------------|----|-------|----|-----|--------|---------------|-----------------|--------|
|          |    | C3             | C4 |       |    |     |        |               |                 |        |
| 50       |    | •              | —  | •     | •  | •   | •      | 600 x 600     | 1.7             | APL50  |
| 100      |    | •              | —  | •     | •  | •   | •      | 600 x 600     | 1.7             | APL100 |
| 150      |    | •              | •  | •     | •  | •   | •      | 600 x 600     | 1.7             | APL150 |
| 200      |    | •              | •  | •     | •  | •   | •      | 600 x 600     | 1.7             | APL200 |
| 300      |    | •              | •  | •     | •  | •   | •      | 600 x 600     | 1.7             | APL300 |
| 500      |    | •              | •  | •     | •  | •   | •      | 600 x 600     | 1.7             | APL500 |

ON REQUEST

### CERTIFICATIONS



OIML R60 C3



Complies with the Eurasian Custom Union standards

CERTIFICATIONS ON REQUEST



ATEX II 1GD (zone 0-1-2-20-21-22)



IECEx (zone 0-1-2-20-21-22)



OIML R60 C4



Complies with the Eurasian Custom Union standards for use in potentially explosive atmospheres

### COMPLEMENTARY ACCESSORIES

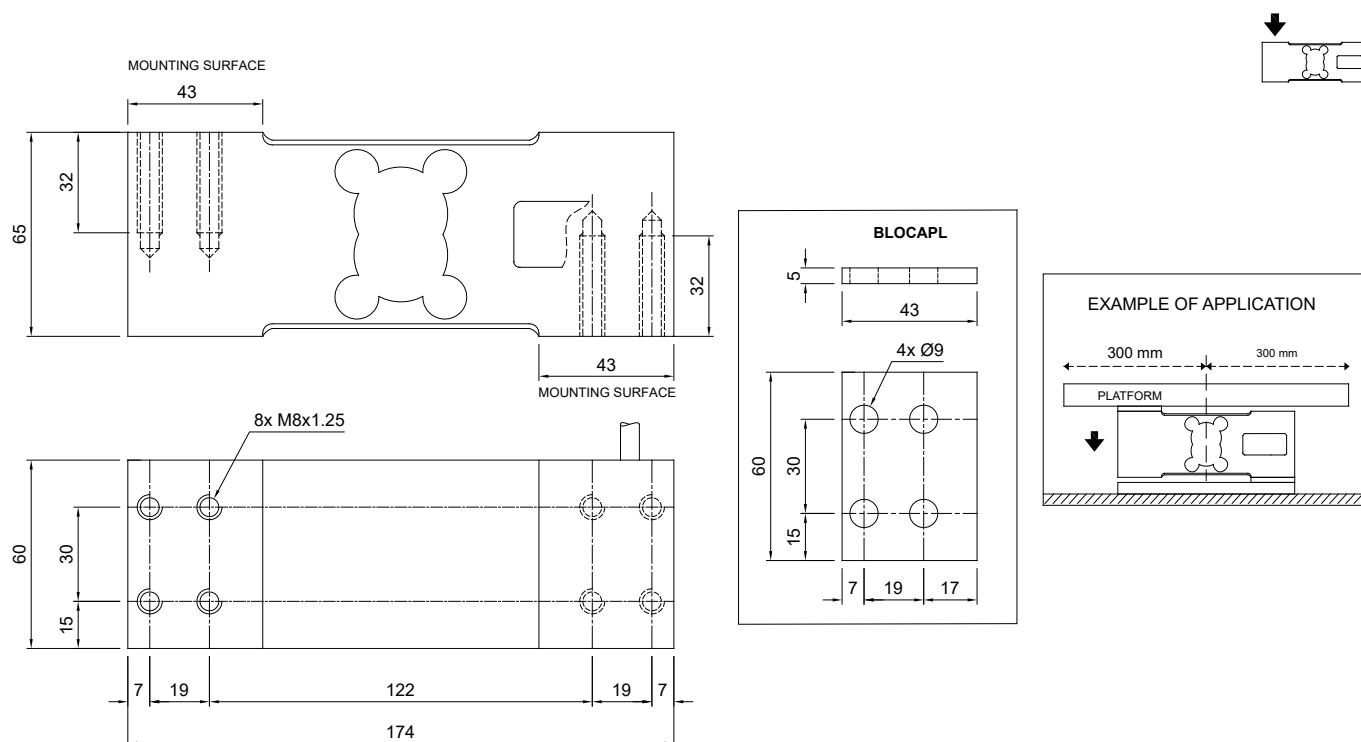
|  | DESCRIPTION                                                                      | CODE       |
|--|----------------------------------------------------------------------------------|------------|
|  | Stainless steel and rubber waterproof kit<br>(Ø 107x245 mm cable gland included) | IP68APLPRE |
|  | Stainless steel drawn block.                                                     | BLOCAPL    |

# APL

## SINGLE-POINT LOAD CELL for platforms 600x600 mm

LAUMAS®

### DIMENSIONS (mm)

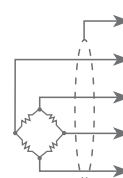


### TECHNICAL FEATURES

| Material                                         | Aluminum alloy                                  |                                                   |
|--------------------------------------------------|-------------------------------------------------|---------------------------------------------------|
| OIML R60 Accuracy class • Verification intervals | C3 • 3000                                       | C4 • 4000                                         |
| Nominal load (E max)                             | 50 - 100 - 150 - 200 - 300 - 500 kg             | 150 - 200 - 300 - 500 kg                          |
| Minimum verification interval (V min)            | E max / 12000                                   | E max / 15000                                     |
| Combined error                                   | $\leq \pm 0.02\%$                               | $\leq \pm 0.017\%$                                |
| Protection class                                 | IP65                                            |                                                   |
| Rated output                                     | 2 mV/V $\pm 10\%$                               | Input resistance 409 $\Omega \pm 6$               |
| Temperature effect on zero                       | 0.0017% $^{\circ}\text{C}$                      | Output resistance 350 $\Omega \pm 3$              |
| Temperature effect on span                       | 0.0014% $^{\circ}\text{C}$                      | Zero balance $\leq \pm 1\%$                       |
| Compensated temperature range                    | -10 $^{\circ}\text{C}$ / +40 $^{\circ}\text{C}$ | Insulation resistance $\geq 5000 \text{ M}\Omega$ |
| Operating temperature range                      | -35 $^{\circ}\text{C}$ / +65 $^{\circ}\text{C}$ | Safe overload (% of full scale) 150%              |
| Creep at nominal load in 30 minutes              | 0.015%                                          | Ultimate overload (% of full scale) 300%          |
| Max supply voltage without damage                | 18 V                                            | Deflection at nominal load 0.5 mm                 |

### ELECTRICAL CONNECTIONS

| Cable length   | 3 m                      |
|----------------|--------------------------|
| Cable diameter | 6 mm                     |
| Cores          | 6 x 0.20 mm <sup>2</sup> |



| SHIELD       |        |
|--------------|--------|
| + SIGNAL     | GREEN  |
| + EXCITATION | RED    |
| + REF./SENSE | BLUE   |
| - SIGNAL     | WHITE  |
| - EXCITATION | BLACK  |
| - REF./SENSE | YELLOW |

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