





**Description**

This low duty aluminium intrinsically safe switchbox encloses two proximity switches for indicating the fully open and fully closed actuator positions.

The switches are operated by a cam on an extension of the actuator drive shaft and all mechanical parts are contained within the enclosure.

The cams are easily adjustable for quick commissioning. Additionally these cams can be adjusted to operate as "unswitched" or "switched".

Cage clamp terminals are pre-wired to the switches which are easily accessible when the top cover is removed. The cover screws are captive.

The switchbox is mounted on top of the actuator with an accessory bracket according VDI/VDE 3845 (NAMUR). Actuators optionally incorporate a visual position indicator.

**Ingress protection**

The enclosure is ingress proof to IP65 and as such completely dust and water tight.

**Certification**

The switchbox is certified for use in zones 0, 1, 2, 20, 21 and 22 with all gas and dust groups.

**Product marking**

**ATEX - Zones 0, 1, 2, 20, 21 and 22**

- Method: Intrinsically safe  
 Marking:   
 Ⓜ II 1G Ex ia IIC T6...T4 Ga  
 Ⓜ II 2G Ex ia IIC T6...T4 Gb  
 Ⓜ II 1D Ex ia IIC T41°C...T80°C Da  
 Ⓜ II 2D Ex ia IIC T41°C...T80°C Db  
 Certificate: DEKRA 18ATEX0079X  
 Temperature: -20°C to +80°C

The actual upper temperature may be limited by the application. See examination certificate for more detailed info.

**Specification**

**Switches**

- Make: Pepperl & Fuchs  
 Type: 2x SC3,5-G-N0  
 Voltage: 8 VDC (Ri = 1kOhm)  
 Amps (output): Switched, <1mA, Unswitched, >3mA  
 Standards: DIN EN 60947-5-6 (NAMUR)  
 Switch operation: Adjustable to "Unswitched", "Switched" or "Fixed"

**Housing**

- Material: Aluminium alloy  
 Electrical Entry: 1x M20x1,5  
 Enclosure: IP65  
 Mounting: Acc. NAMUR VDI/VDE 3845, the F12 Actuator has his own bracket

**Identification**

- LDNA-IS10 Aluminium enclosure with 2x Pepperl & Fuchs SC3,5-G-N0

**Option**

Vestamid housing

**Cable gland**

- Clamping and sealing range: 5-10 mm  
 Torque both sides: 3,8 Nm

**Specific conditions of use**

Because the enclosure of the switchbox type LDNA-IS is made of aluminium, if it is mounted in an area where the use of category 1 G apparatus is required, it must be installed such, that even in the event of rare incidents, ignition sources due to impact and friction sparks are excluded. Because the enclosure of the switchbox type LDNA-IS is painted, if it is mounted in an area where the use of category 1 D or 2 D apparatus is required, electrostatic charges on the coated parts of the switchbox shall be avoided.

Dim. In	Actuator model												
	F12	F25	F40	F65	F100	F150	F200	F350	F600	F950	F1600	F2500	F4000
<b>A1 - FS</b>	118	166	192	217	247	304	362	385	476	658	732	877	959
<b>A2 - FD</b>	103	166	192	217	247	235	265	284	356	400	462	550	649
<b>A3</b>	80	91	112	124	131	157	163	201	248	268	302	354	389
<b>A5</b>	60	68	82	92	103	116	124	161	195	239	306	350	400
<b>A6</b>	60	49	55	58	64	69	72	85	102	131	149	170	196
<b>H</b>	45	45	45	45	45	45	45	45	55	55	55	55	55

**Terminal connections**

**P&F Type: 2x SC3,5-G-N0**

