

Gli interruttori **DL** sono montati di lato sul serbatoio mediante una flangia. In questi modelli il livello del liquido viene controllato da un galleggiante solidale con un'astina oscillante. Quando il livello sale oltre il punto stabilito, il galleggiante fa scattare un dispositivo, elettrico o pneumatico, posto entro la custodia (*intervento in salita*); poi, quando il livello ridiscende al di sotto di tale punto, il galleggiante riporta il dispositivo allo stato di partenza (*ripristino in discesa*); tra i punti di intervento e di ripristino vi è un *differenziale*; questo è di  $50 \pm 10\text{mm}$  nel caso standard, ma può essere anche molto maggiore nel caso di versioni preparate su richiesta. È disponibile anche la funzione contraria : *Intervento in discesa e Ripristino in salita*.

**Sono conformi alle Norme PED ed ATEX** (pag. 37).

**APPLICAZIONI.** Grazie al loro principio di funzionamento, questi interruttori possono essere impiegati per liquidi con peso specifico da  $500\text{kg/m}^3$  in su.

**Corpo.**

Materiali : Acciaio carb. ASTM A106B, inox AISI 304, AISI 316.  
Dimensioni :  $\varnothing_{\text{est.}} 3''$  (89mm), e con vari spessori secondo ASME.  
Rating : ANSI 150÷1500 psi.

Per maggiore sicurezza e semplicità di produzione, il galleggiante e le altre parti interne sono sempre in acciaio inox AISI 316.

**Attacco al serbatoio** (pag. 32-33).

- Flange a Norme ANSI nei rating 150÷1500 psi.
- Flange a Norme UNI/DIN.

Materiali : Acciaio carb. ASTM A106B, inox AISI 304, AISI 316.

**Custodia** (pag. 34).

Fusione di Alluminio, in versione elettrica o pneumatica :

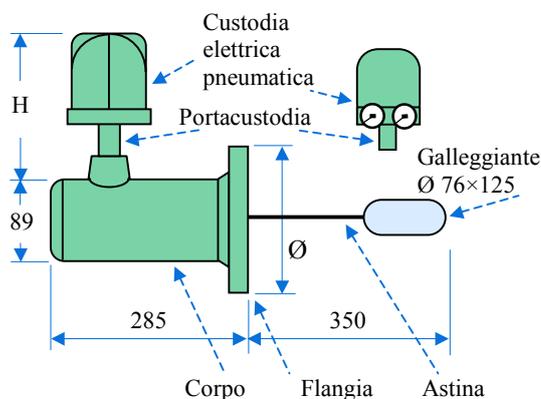
- 1 oppure 2 micro ad azione simultanea : ved. pag. seguente; dimensioni :  $\varnothing 155 \times 200\text{mm}$ , antideflagrante EEx dc IIC T6;
- 1 foro per la conness. elettrica :  $\frac{3}{4}''$  NPT-F (opp.  $\frac{1}{2}''$  NPT-F);
- 1 valvola pneumatica On/Off/Sfiato; dimensioni :  $\varnothing 125 \times 180\text{mm}$ , tenuta stagna;
- 3 fori per connessione  $\frac{1}{4}''$  NPT-F per ingresso, uscita e spurgo.

**Differenziale.**  $50 \pm 10\text{mm}$  nel caso standard, ma può essere anche molto maggiore nel caso di esecuzioni preparate su richiesta.

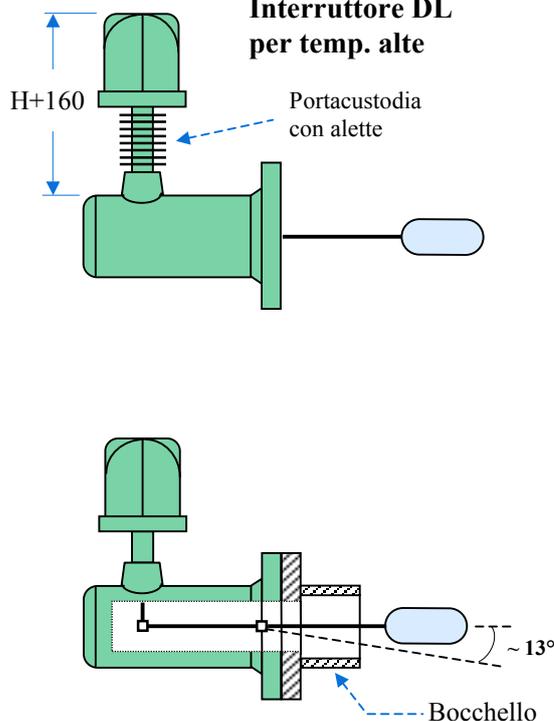
**Astina.** L'astina che entra nel serbatoio viene normalmente fornita in modo che l'insieme *astina-galleggiante* sporga  $350\text{mm}$  dalla flangia (ved. figura qui a fianco); su richiesta si possono studiare altre misure.

**Finitura esterna.** Lo strumento in acciaio al carbonio ha la verniciatura standard realizzata così : fondo epossidico e copertura poliuretanic di colore **verde**, adatta ad ambienti marini e tropicali; quello inox è lucidato e lasciato a vista.

**Interruttore DL**



**Interruttore DL per temp. alte**



**NOTA**

Il bocchello dovrà essere dimensionato in modo che l'insieme *astina-galleggiante* sia libero di oscillare per un angolo minimo di  $13^\circ$

**Altezza H :**

Custodia elettrica = 245mm  
Custodia pneumatica = 210mm

**Diametro della flangia :**

$\varnothing 3''$	ANSI 150 = 191 mm
	ANSI 300 = 210 mm
	ANSI 600 = 210 mm
$\varnothing 4''$	ANSI 150 = 229 mm
	ANSI 300 = 254 mm
	ANSI 600 = 273 mm

In caso di liquidi turbolenti, preghiamo consultarci.  
Su richiesta, sono producibili Interruttori anche in versione speciale.

**ATTACCO al serbatoio dei DL :**

Mediante :

- F** Flangia ANSI con faccia RF
- J** " ANSI faccia RJ (Ring Joint)

Rating :

- 15** ANSI 150 psi
- 30** ANSI 300
- 60** ANSI 600
- M5** ANSI 1500

Diametro flangia :

- G** 3" <sup>(1)</sup>
- H** 4"

**CORPO e ATTACCO in :**

- AC** Acciaio al carbonio <sup>(1)</sup>
- A4** " inox AISI 304
- A6** " " AISI 316

Sono disponibili anche le flange a Norme UNI/DIN : pag.33.  
Su richiesta, il corpo può essere in Hastelloy, Teflon, PVC, etc.

**CUSTODIA (pag. 34-35) :**

**Uscita elettrica o pneumatica :**

Numero delle uscite elettriche : 1 o 2 microswitch SPDT ad azione simultanea

- A**•• Microswitch antipolvere, 6A – 24Vdc, contatto in argento <sup>(1)</sup> <sup>(2)</sup>
- B**•• " " " 6A res – 5A ind – 30Vdc, contatto in argento <sup>(3)</sup>
- Q**•• " " " 1mA–5Vdc(valore min), 1A–125Vac(max), contatto dorato <sup>(4)</sup>
- R**•• " sigillato in gas inerte, 3A res–1,5A ind–30Vdc, cont. in argento <sup>(5)</sup>
- Z**•• " " " " 1mA–5Vdc(min), 0,5A–30Vdc(max), cont. dorato <sup>(6)</sup>
- 1 PA**• 1 Valvola pneumatica ON-OFF : apre l'aria quando il livello sale, con 2 manometri <sup>(1)</sup>
- 1 PC**• " " " " chiude " " " " " " " "

**Foro per la connessione elettrica :**

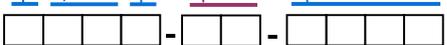
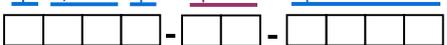
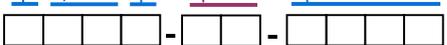
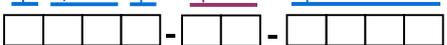
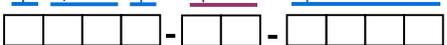
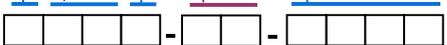
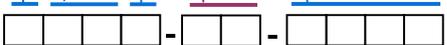
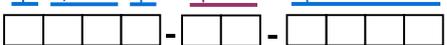
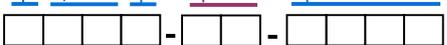
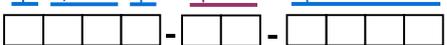
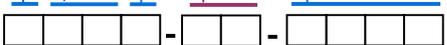
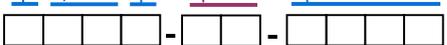
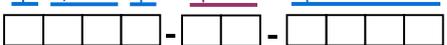
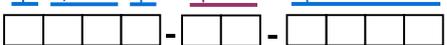
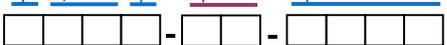
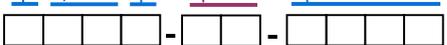
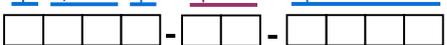
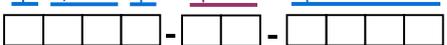
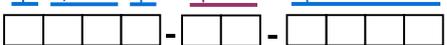
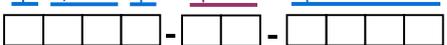
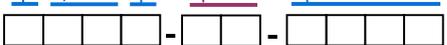
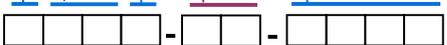
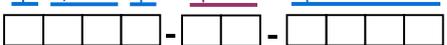
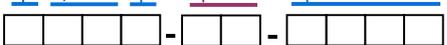
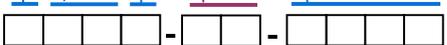
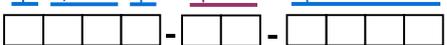
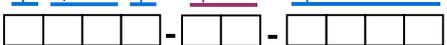
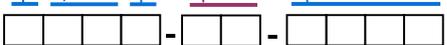
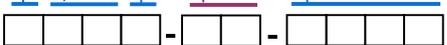
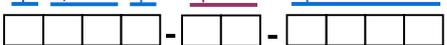
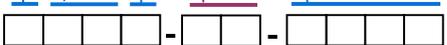
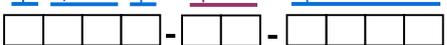
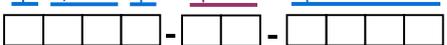
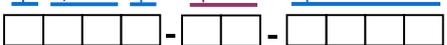
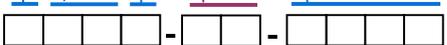
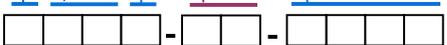
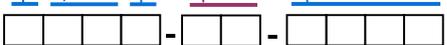
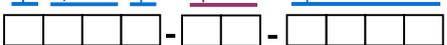
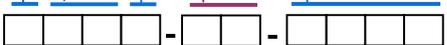
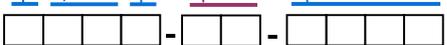
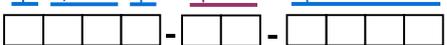
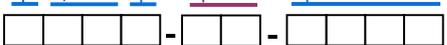
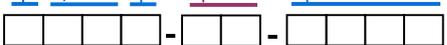
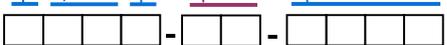
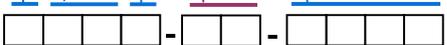
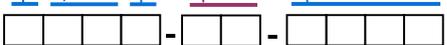
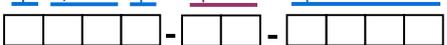
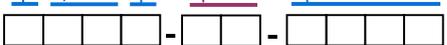
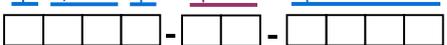
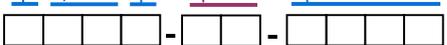
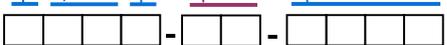
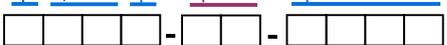
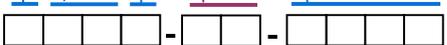
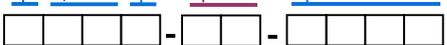
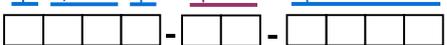
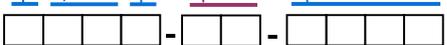
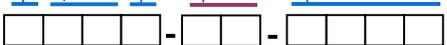
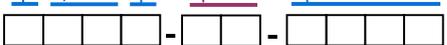
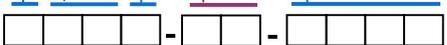
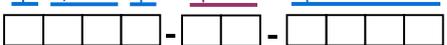
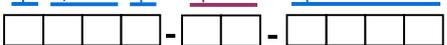
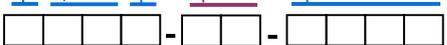
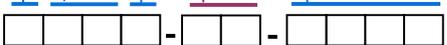
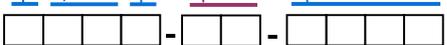
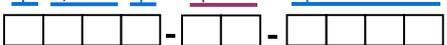
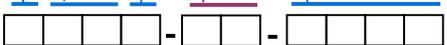
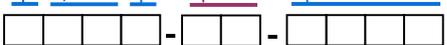
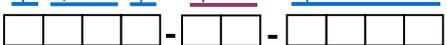
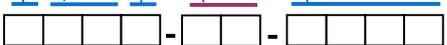
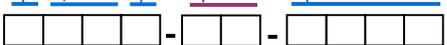
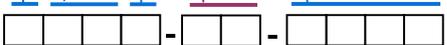
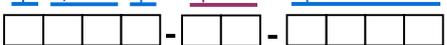
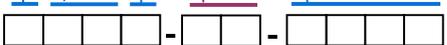
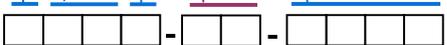
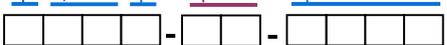
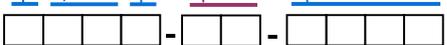
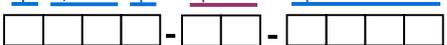
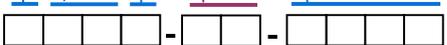
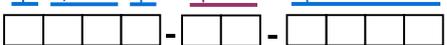
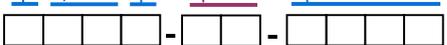
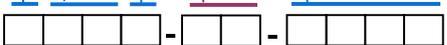
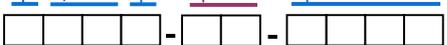
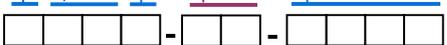
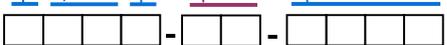
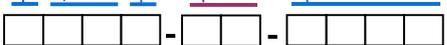
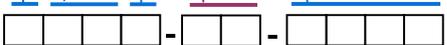
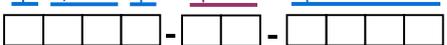
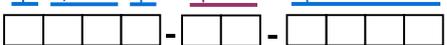
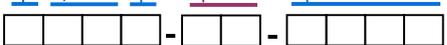
- **A**• Foro filettato 1/2" NPT-F, per pressacavo (non fornito)
- **B**• " " 3/4" NPT-F, " " (non fornito) <sup>(1)</sup>

- 3 vie : On/Off/Sfiato
- Pressioni di utilizzo :  
1÷5,5Bar / 15÷80psi
- PA↔PC : pag. 34.

**Portacustodia :**

- **S** Per temperature standard, –20/+180°C
- **H** Per temperature alte, +181/+450°C, con alette di raffreddamento
- **L** Per temperature basse, –21/–60°C, senza alette di raffreddamento

Su richiesta, sono producibili interruttori anche in versione speciale.

**DL -**  **-**  **-**  **-**  **-**  **-**  **-**  **-**  **-**  **-**  **-**  **-**  **-**  **-**  **-**  **-**  **-**  **-**  **-**  **-**  **-**  **-**  **-**  **-**  **-**  **-**  **-**  **-**  **-**  **-**  **-**  **-**  **-**  **-**  **-**  **-**  **-**  **-**  **-**  **-**  **-**  **-**  **-**  **-**  **-**  **-**  **-**  **-**  **-**  **-**  **-**  **-**  **-**  **-**  **-**  **-**  **-**  **-**  **-**  **-**  **-**  **-**  **-**  **-**  **-**  **-**  **-**  **-**  **-**  **-**  **-**  **-**  **-**  **-**  **-**  **-**  **-**  **-**  **-**  **-**  **-**  **-**  **-**  **-**  **-**  **-**  **-**  **-**  **-**  **-**  **-**  **-**  **-**  **-**  **-**  **-**  **-**  **-**  **-**  **-**  **-**  **-**  **-**  **-**  **-**  **-**  **-**  **-**  **-**  **-**  **-**  **-**  **-**  **-**  **-**  **-**  **-**  **-**  **-**  **-**  **-**  **-**  **-**  **-**  **-**  **-**  **-**  **-**  **-**  **-**  **-**  **-**  **-**  **-**  **-**  **-**  **-**  **-**  **-**  **-**  **-**  **-**  **-**  **-**  **-**  **-**  **-**  **-**  **-**  **-**  **-**  **-**  **-**  **-**  **-**  **-**  **-**  **-**  **-**  **-**  **-**  **-**  **-**  **-**  **-**  **-**  **-**  **-**  **-**  **-**  **-**  **-**  **-**  **-**  **-**  **-**  **-**  **-**  **-**  **-**  **-**  **-**  **-**  **-**  **-**  **-**