

# Single & Double Switch Modules – ESM / DSM

The single switch module ESM and the double switch module DSM are ready-to-install units, consisting of:

- Switches:
  K12 (for both ESM or DSM)
  K12G (DSM only with two
  switching-points)
  PVA1H4 (ESM only)
- PC board
- Rubber cap
- Optional cable or connector

The rubber cap offers the possibility to use both switch modules under severe ambient conditions where dust, water, oil, solvents etc. can effect or destroy the function of standard switches.

With the rubber cap the two modules are sealed to IP 65 when mounted.

### **Typical Applications**

- Tractors
- Harvesting equipment
- Industrial controls



Technical Data					
Cap Material		Silicone rubber			
Protection Level		IP 65 (with cap when mounted)			
Cable		FLK/FLY 0.5 mm <sup>2</sup>			
Switches		K12 K12G	(both ESM or DSM) (DSM only, two switching-points)		
		PVA1H4	(ESM only)		
	Operating force	Travel (mm/inch)			

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K12	5 N	1 / 0.039
K12G	3.5 / 7 N	1.5 / 0.0591
PVA1H4	3 N	2.2 / 0.087

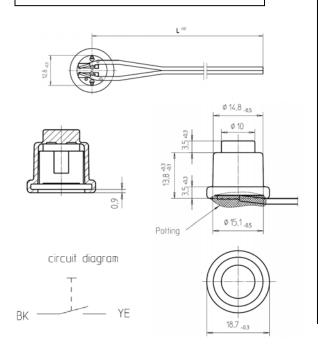
O	dering code		1	2	3	4	6	7	8
		Example	DSM	K12	1	5N	С	L130	Pu Po
1	Designation	ESM = single switch module	1	1	1	1	f	<u> </u>	1
	_	DSM = double switch module	<u> </u>						
2	Switch	K12 = (for ESM and DSM)							
		K12G = with 2 switching-points (DSM only)							
		PVA = PVA1H4 (ESM only)							
3	Travel of Switch	1 = 1  mm (K12)							
		1.5 = 1.5  mm (K12G)							
		2.2 = 2.2  mm (PVA1H4)							
4	Operating force	5N = 5 N (K12)							
		3.5N = 3.5 / 7 N (K12G)							
		3N = 3 N (PVA1H4)							
6	Cap	N = none							
		C = with cap							
7	Cable	- = none							
		L130 = 130 mm cable length							
8	Cap decals (DSM)*	- = none							
		P = arrows:							
		U (down), O (Up), L (left), R (right)							

<sup>\*</sup> see drawing overleaf

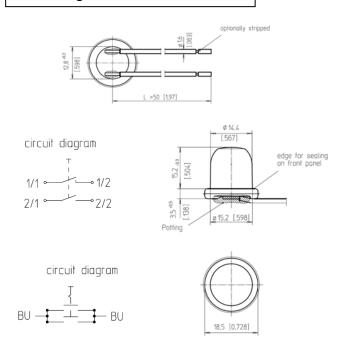


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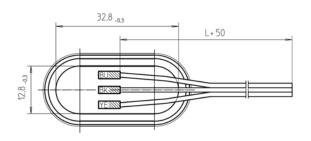
## ESM single switch with K12

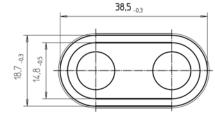


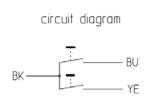
### ESM single switch with PVA1H4

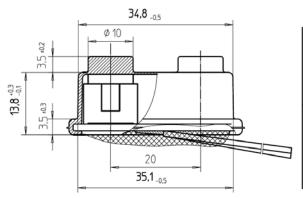


### **DSM** double switch module with K12









#### Decals:

