



Quick Selection Guide for UE Products

PRODUCT SERIES	J6	10	12	121K	24	J40	54	55	100	117	120	400	800	820E/822E	One Series					Excela	Vanguard
															1XSWLL	1XSWHL XSWHH	1XTXSW	1XTX00	ONE Safety (25LP)		
PAGE	11	9	6	11	9	11	10	10	8	6	7	8	12	7	5	5	5		5	8	4
VARIABLE																					
Pressure	●	●	●			●	●		●	●	●	●			●	●	●	●	●	●	
Vacuum	●		●	●		●	●		●	●	●	●			●	●	●	●	●	●	
Differential Pressure			●	●	●				●	●	●	●			●	●	●	●	●	●	
Temperature			●				●	●	●	●	●	●	●	●	●	●	●	●	●	●	
Gas																					●
ENCLOSURE																					
Open frame						●	●	●													
Enclosure Type 1 Gen. Purpose		●		●	●		●						●								
Enclosure Type 4 Watertight		●											○	●							
Enclosure Type 4X Watertight	●		●	○				●	●	●	●	●			●	●	●	●	●	●	●
Zone 0, Intrinsically Safe	○	○	○	○					○	○	○	○			●						
Division 1 Zone 1, Hazardous Location, IP 66 Rating			●								●			●	●	●	●	●	●	●	●
Division 2 Zone 2, Hazardous Location, IP 65 Rating			●							●	●			●	●	●	●	●	●	●	●
OUTPUT																					
Single Switch SPDT	●	●		●	●	●	●	●	●		●	●	●	●	SPST	SPST				SPST	●
Dual Switch SPDT							●	●			●	●	●	●			2xSPST				
Triple Switch SPDT												●									
DPDT									○		○	○									
Dual Switch DPDT												○									
Adjustable Deadband	○			○		○	○		○		○	○			●	●	●		●	●	
Hermetically-Sealed Switch SPDT			●							●	○										
Hermetically-Sealed Switch DPDT			●							○	○										
4 to 20 mA, HART																	●	●			
Wireless HART																					●
SENSORS																					
Welded Stainless Steel Diaphragm			●						●	●	●	●			●	●	●	●	●	●	●
Stainless Steel Bellows	●			●			●		●	●	●	●									
Elastomer Diaphragm		●	●		●		●		●	●	●	●									
Brass/Bronze Bellows	●			●		●	●		●	●	●	●									
Piston	●	●	●				●		●		●	●									
Process Alloy			○						○	○	○										
Local Temperature Mount			●				●		●	●	●				●	●	●	●	●	●	●
Remote Temp. Mount			●				●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Toxic (H ₂ S, CO, NH ₃)																					●
Combustible (CH ₄ , C ₃ H ₈ , LEL%)																					●
MISCELLANEOUS																					
Terminal Block					●					●	●		○	●	●	●	●	●	●	●	●
Visual Indication*					○			○	○		○	○	●	●	●	●	●	●	●	●	●
Dual Seal Certified			●												○	○	○	○	○		
SIL 2 Certified			○						○	○					●	●			●		
Battery Operated																					●

*Visual indication may be through a pilot light option or display of process pressure or temperature readings.

● Available ○ Option

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Registered in England No. 01851002. VAT No. GB 417 2481 61



Certification Guide* for UE Products

CERTS / APPROVALS	J6	10	12	J21K	24	J40	54	55	100	117	120	400	800	820/822E	One Series			Excela	Vanguard	
															1XSWLL	1XSWHL 1XSWHH 1XTXSW & 1XTX00	ONE Safety (2SLP)		TCD50	TCD60
NORTH AMERICA																				
	FM																			
	UL Mark	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		
	CL I, Grp A			●												●				
	CL I, Grp B										●				●		●			
	Intertek Ex db ia [ia] IIB T4 Gb IP66																		●	
	Intertek Ex db ia [ia] IIC																			●
	CRN	●	●	●	●	●	●		●	●	●	●			●	●	●			
Enclosure Rating			Type 4	4X					4X	4X	4X				4X	4X	4X	4X	4X	4X
EUROPE																				
	ATEX Ex ia	●	●	●	●				●	●	●	●			●				●	●
	ATEX Ex nA														●	●				
	ATEX Ex db			●							●				●	●	●	●	●	●
	ATEX Ex tb			●							●				●	●	●	●	●	●
Electromagnetic Compatibility (EMC)	2014/30/EU														●	●	●			
Low Voltage Directive (LVD)	2014/35/EU	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Pressure Equipment Directive (PED)	2014/68/EU	●	●	●	●	●	●		●	●	●	●			●	●	●			
Enclosure Rating				IP66							IP66			IP66	IP66	IP66	IP66	IP66	IP66	IP66
INTERNATIONAL																				
	IEC Ex ia	●	●	●	●				●	●	●	●			●				●	●
	IEC Ex nA														●	●				
	IEC Ex db			●							●				●	●	●	●	●	●
	IEC Ex tb			●							●				●	●	●	●	●	●
Enclosure Rating				IP66							IP66			IP66	IP66	IP66	IP66	IP66	IP66	IP66
SIL																				
	SIL			●					●	●					●			●		

Ex d = Flame-Proof
 Ex tb = Dust Protected
 Ex ia = Intrinsic Safety
 Ex nA = Non-Arcing
 Ex tb = Dust Protected

CL 1, Groups A - Class 1, Groups A, B, C, D; Class II, Groups E, F, G: Class III
 CL I, Groups B = Class 1, Groups B,C,D; Class II, Groups E, F, G: Class III
 ● Available ○ Option

UE is a registered trademark of United Electric Controls Company.
 Excela, Vanguard and The Sensor Box are trademarks of United Electric Controls Company.

The following registered trademarks are property of the respective companies:
 Lexan General Electric Co.
 HART and WirelessHart FieldComm Group

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BRAZIL																				
	INMETRO Ex ia			○					○	○	○	○			○					
	INMETRO Ex nA														○					
	INMETRO Ex db			○							○				○	○	○	○		
	INMETRO Ex tb			○							○				○	○	○	○		
CHINA																				
	CCC / Ex ia	○	○	○	○				○	○	○	○			○					
	CCC / Ex ec														○	○				
	CCC / Ex db			○							○		○		○	○	○	○		
	CCC / Ex tb			○							○		○		○	○	○	○		
INDIA																				
	PESO Ex d			△							△			△	△	△	△			●
	PESO Ex ia	△	△	△	△				△	△	△	△			△					●
KOREA																				
	KOSHA/KGS Ex d			○							○			○	○	○				○
	KOSHA/KGS Ex tb										○									
	KOSHA/KGS Ex ia														○					○
RUSSIA, KAZAKHSTAN, BELARUS, ARMENIA, KYRGYZSTAN																				
	EAC Ex db			●							●			●	●	●	●	●		●
	EAC Ex tb			●							●			●	●	●	●	●		●
	EAC Ex ia	●	●	●	●				●	●	●	●			●					
TAIWAN																				
	ITRI										●				●	●				
UKRAINE																				
	UkrEx			●							●			●						
UNITED ARAB EMIRATES (UAE)																				
	ECAS / Ex ia	△	△	△	△				△	△	△	△			△					
	ECAS / Ex db			△							△		△		△	△	△	△		
	ECAS / Ex tD			△							△		△		△	△	△	△		
	ECAS / Ex nA														△	△				

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CL 1, Groups A - Class 1, Groups A, B, C, D; Class II, Groups E, F, G: Class III
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● Available ○ Option △ Contact ABLE

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