

Electrical Equipment for Explosive Atmospheres

Certificate of Type Verification

Applicant	Longvale Limited		
Applicant address	Lancaster Park, Needwood Burton-upon-Trent, Staffordshire, DE13 9P, United Kingdom	TEL	+44 1283 575811
Manufacturer	Longvale Limited		
Manufacturer address	Lancaster Park, Needwood Burton-upon-Trent, Staffordshire, DE13 9P, United Kingdom	TEL	+44 1283 575811
Name of product Type	Proximity switch ES series and FS series		
Ex marking	Ex db IIC T4 / T6 Gb Ex tb IIIC T135°C / T85°C Db		
Certificate No.	(ITRI)2020 07-00121X		
Date of first issue	Jul. 09, 2020		
Date of Renewal			
Valid period	Jul. 09, 2020 to Jul. 08, 2023		
Standards:	CNS 3376-0 : 2014 ; IEC 60079-1 : 2014 ; IEC 60079-31 : 2013		
Ratings:	ES series @60 W= 24 Vdc, 2.5 A and 250 Vac, 250 mA ES series @20 W= 24 Vdc, 830 mA and 250 Vac, 80 mA FS series = 24 Vdc, 3 A, 110 Vac, 4 A and 240 Vac, 2 A		
Ambient temperature:	T4 / T135°C : -60°C ~ +120°C T6 / T85°C : -20°C ~ +70°C		
Main components:	Body, head lid, switch, circuit board, terminal block.		
Type variants:	See Annex.		
Specific conditions of use:	Cable glands or blanking plugs for enclosure entries are not provided with the equipment. For safe use, certified cable glands or blanking plugs with proper type of protections shall be correctly fitted to maintain the integrity of specified protections.		
Approval reference:	The assessment of the above equipment is based on the IECEx certificates (IECEx BAS 14.0056X) issued by SGS Baseefa Limited (BAS), United Kingdom and the associate test report(s) (GB/BAS/ExTR14.0119/00, GB/BAS/ExTR14.0275/00, GB/BAS/ExTR15.0353/00, GB/BAS/ExTR16.0252/00, GB/BAS/ExTR18.0031/00, GB/BAS/ExTR18.0082/00, GB/BAS/ExTR19.0233/00).		
Certificate history:	Issue 1 (B202000249)	(2020-07-09)	



Certificate issued by

Industrial Technology Research Institute
195 Sec. 4, Chung Hsing Rd., Chutung, Hsinchu, 31057, Taiwan



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Applicant	Longvale Limited	
Annex:	type	ES-abcd-e
	a	3 M18 x 1 x 80 cylindrical switch 4 M18 x 1 x 55 cylindrical switch 5 5/8" UNF x 92 cylindrical switch 6 M18 x 1 x 80 cylindrical switch 7 5/8" UNF x 110 cylindrical switch 8 M18 x 1 x 110 cylindrical switch
b	3 IECEx & ATEX Markings D Multiple Certification Markings (Exd only) K TS(Taiwan) Marking	
c	2 Stainless steel housing	
d	1 T6 Temperature Class 2 T4/T6 Temperature Class	
e (may be combined)	A 1A Switching (4000 series) B 20W Reed (3000, 5000 series) C 3A switching N/O (3000 series) D DPDT E Earth F Latching/bi-stable 5K 5000 psi pressure resistant end cap 10K 10000 psi pressure resistant end cap W Back wireable WL Side wireable WLR Rotatable side wireable WLRT Twin entry rotatable side wireable	
	Type	FS-abcd-e
a	A M18 x 1 x 80 cylindrical switch B 5/8" UNF x 92 cylindrical switch C M18 x 1 x 92 cylindrical switch D 5/8" UNF x 110 cylindrical switch E M18 x 1 x 110 cylindrical switch F 3/4"-16 UNF x 148 cylindrical switch CYL-B Flange mount s/w x 108 CYL-C Flange mount s/w x 108	
b	3 IECEx & ATEX Markings D Multiple Certification Markings (Exd only) K TS(Taiwan) Marking	
c	2 Stainless steel housing	
d	1 T6 Temperature Class 2 T4/T6 Temperature Class	
e (may be combined)	D DPDT E Earth 5K 5000 psi pressure resistant end cap 10K 10000 psi pressure resistant end cap W Back wireable WL Side wireable WLR Rotatable side wireable WLRT Twin entry rotatable side wireable	

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