

Limit Switches — continued

Safety Action, Sub-Miniature 'Tiny 2'



Body H = 45 (excluding head), W = 30, D = 27 Fixing centres = 22/23mm

- Slow make/break or Snap-action drive on NC contacts
- 1NO, 1NC or 2NC contacts
- Suitable for limit or safety applications
- Hinged snap-shut lid sealed to IP65
- Full range operating heads

Housing	Thermoplastic (UL94-V0)	Max voltage	250Vac
Operating temp	-30°C to +80°C	Thermal current	I _{th} 10A
Mechanical life	3 1 0° switch operations	Approvals	UL, CSA, BG
Max inrush current	IEC 947-5-1, AC 15, DC 13		

CTL317

	Order Code	Price Each			
		1+	5+	10+	50+
Plunger					
1NC, 1NO Slow make/break	320-4870				
2NC Slow make/break	320-4881				
1NC, 1NO Snap-action	320-4893				
2NC Snap-action	320-4900				
Roller Plunger					
1NC, 1NO Slow make/break	320-5046				
2NC Slow make/break	320-5058				
1NC, 1NO Snap-action	320-5060				
2NC Snap-action	320-5071				
Roller Lever					
1NC, 1NO Slow make/break	320-5083				
2NC Slow make/break	320-5095				
1NC, 1NO Snap-action	320-5101				
2NC Snap-action	320-5113				
Turret Roller Lever					
1NC, 1NO Slow make/break	320-5125				
2NC Slow make/break	320-5137				
1NC, 1NO Snap-action	320-5149				
2NC Snap-action	320-5150				

General Purpose Limit Switch Type D4D-N Series



- Sealed to IP65
- Two sets of contact: one (NC) for safety circuit and the other (NO) for control circuit
- 4 position turret head
- Wide standard operating temperature range: -30°C to +70°C
- Approved to UL, conform to EN50047, EN81 and IEC204-1



Rating	10A @125Vac, resistive load		
	10A @125Vac, resistive load		
Mechanical life	15,000,000 operation min.		
Operating temperature	-30°C to +70°C		
Conduit size	G1/2		
	357-8446	357-8458	357-8460
Operating force max.	4.9N	4.2N	6.4N
Return force min.	0.5N	0.4N	1.5N
Pre-travel max	18° to 27°	18° to 27°	2mm
Over travel min.	40°	40°	4mm
Movement diff. max.	14°	14°	1mm

CTL342/SI

	Mftrs. List No.	Order Code	Price Each		
			1+	5+	10+
Side rotary: roller lever	D4D2120N	357-8446			
Adjust roller lever	D4D2121N	357-8458			
Top plunger roller	D4D2132N	357-8460			

Type — "D4MC" 10A @ 250Vac



- Approvals to UL and CSA
- Sealed to IP67
- Higher mechanical strength, dust proof and drip proof
- Sealed with gasket diaphragm to provide high sealing property without use of any adhesive pin.



Fixing centres = 25.4mm W = 21.7mm D = 70mm
H = 37.8mm (excl. plunger for D4MC1000, D4MC200 & D4MC2020)
H = 41.3mm (excl. plunger for D4MC5000 & D4MC5020)

Mechanical life	10,000,000 operation min.			
Electrical life	500,000 operation min.			
Operating temperature	-10°C to +180°C			
Order Code	357-4090	357-4106	357-4118	357-4120
Operation force	1.67N	1.96N	2.94N	5.88N
Release force, min	0.25N	0.39N	0.39N	0.98N
Pre-travel, max.	—	—	—	1.6mm
Overtravel, min.	4mm	5mm	2mm	5mm
Movement diff. max.	3mm	3mm	1.5mm	0.2mm

CTL341/

	Mftrs. List No.	Order Code	Price Each		
			1+	5+	10+
Steel Hinge Lever	D4MC1000	357-4090			
Plastic Roller	D4MC2000	357-4106			
Plastic Roller	D4MC2020	357-4118			
Steel Plunger	D4MC5000	357-4120			
Steel Roller Plunger	D4MC5020	357-4131			

Safety Action, Miniature – Type 'D4D.....N' 6A @ 380V ac



176-343 Roller lever 176-344 Piston plunger 176-345 Roller plunger 176-346 One way roller

Body: H = 60 (excluding plunger), W = 31, D = 31, Fixing centres = 47 22

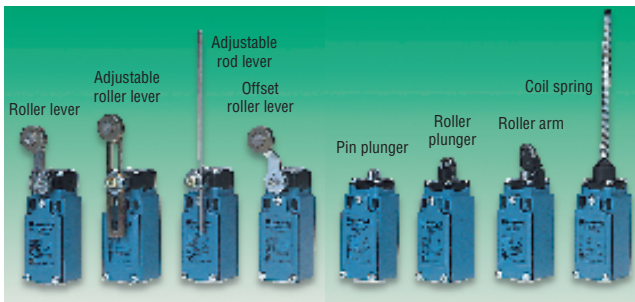
- Safety action – fail-safe mechanism forcibly opens contacts should return spring fracture or contacts weld
- Lever actuating heads can be mounted in four separate directions
- Conform to VDE 0660 and VDE 0113 safety switch specifications, also to IEC-337-1, IEC-204-1 and EN 50047
- Heat and impact resistant plastic resin body, sealed to IP65

Contacts	SPNO, SPNC	Electrical life	200,000 ops at 6A @ 380V ac
Mechanical life	15,000,000 ops	Operating temperature	-10°C to +70°C

CTL272

	Mftrs. List No.	Order Code	Price Each			
			1+	5+	10+	50+
Roller lever	D4D1120N	176-343				
Piston plunger	D4D1131N	176-344				
Roller plunger	D4D1132N	176-345				
One way roller	D4D1162N	176-346				

Safety Type, Miniature – Type GLS DIN Standard 10A Thermal (Ith) (IEC947-5-1) /Low Energy 100mA @ 50V



Body : H (to fixing centres) = 55, W = 30.5, D = 30. Fixing centres = 20-22 (2 4.3 ∅)