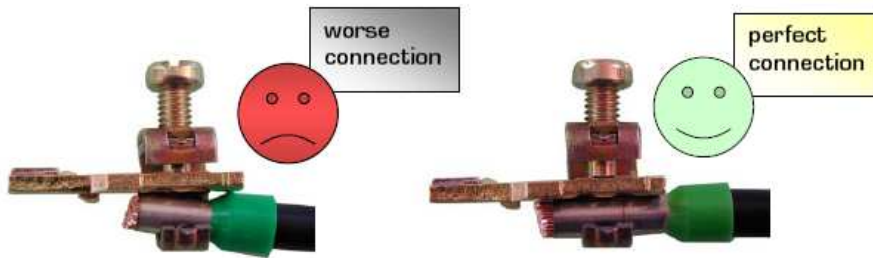


By wiring conductors to terminals please pay attention that the insulation of the multicore cable end is not pulled into the terminal – see pictures.



Telux - - Cam Switches



Typ	Ratings			Protection degree from front in mounted position			Plate mm	Designs			
	Rated current Therm. $I_{m, open}$ A	AC21 A	at U_s V	Motor AC3 3-400V kW	AC23 3-400V A	kW		Panel moun. M10H, M20 IP65 IP40	Single hole mount. $\varnothing 22,5$ mm with Plate IP65	without Plate IP65	Flush mount. IP40
M4H	10	10	440	2,2	6	3	30 \square	M4H E $\bullet\bullet$	M4H Z $\bullet\bullet$	M4H ZO $\bullet\bullet$	-
M10H	20	20	690	5,5	16	7,5	48 \square	M10H E $\bullet\bullet$	M10H Z $\bullet\bullet$	M10H ZO $\bullet\bullet$	-
M10	20	20	440	5,5	16	7,5	48 \square	-	-	-	M10 UP $\bullet\bullet$
M20	32	32	690	11	30	15	48 \square	M20 E $\bullet\bullet$	M20 Z $\bullet\bullet$	M20 ZO $\bullet\bullet$	-
N20	32	32	690	11	30	15	64 \square	N20 E $\bullet\bullet$	-	-	N20 UP $\bullet\bullet$
N33F	50	50	690	15	45	22	64 \square	N33F E $\bullet\bullet$	N33F Z $\bullet\bullet$	-	-
N32	40	40	690	11	30	15	64 \square	-	-	-	-
N40	63	63	690	15	45	22	88 \square	N40 E $\bullet\bullet$	-	-	-
N60	85	85	690	25	60	30	88 \square	N60 E $\bullet\bullet$	-	-	-
N80	115	115	690	30	85	45	88 \square	N80 E $\bullet\bullet$	-	-	-
L100	125	125	690	15	45	22	88 \square	L100 E $\bullet\bullet$	-	-	-
L160	180	180	690	25	60	30	88 \square	L160 E $\bullet\bullet$	-	-	-
N100	150	150	690	40	110	55	132 \square	N100 E $\bullet\bullet$	-	-	-
N200	250	250	690	70	140	70	132 \square	N200 E $\bullet\bullet$	-	-	-
L400	400	400	690	70	140	70	132 \square	L400 E $\bullet\bullet$	-	-	-
L600	600	400	690	70	140	70	132 \square	L600 E $\bullet\bullet$	-	-	-
L800	800	400	690	70	140	70	132 \square	L800 E $\bullet\bullet$	-	-	-
L1200	1200	400	690	70	140	70	132 \square	L1200 E $\bullet\bullet$	-	-	-

Cam Switches 10 - 250A

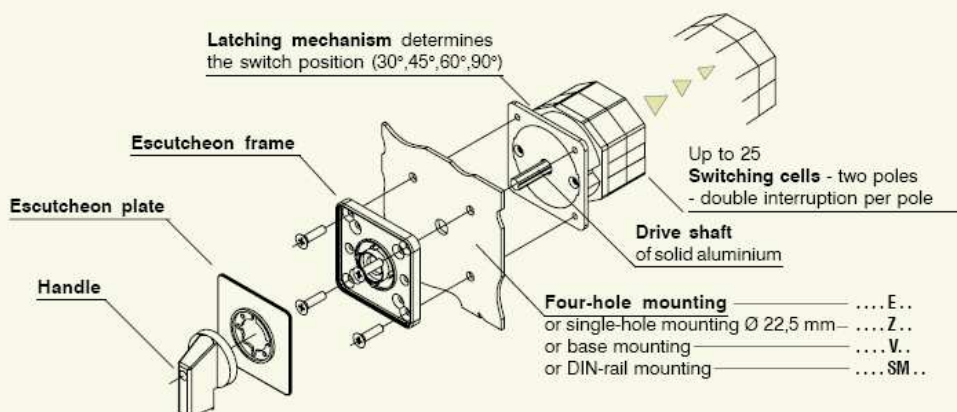
Cam switches can be used for virtually all purposes, e.g. as motor, main, control or instrument switches. Over and above the switching programs mentioned in the list, an effectively limitless number of special programs can be implemented.

Load switch L.. 125 - 1200A

Load switches are primarily employed where resistive or slightly inductive current loads are to be switched on and off, or switching takes place without loading.

Load switches are assembled by parallel switching of two or more of cam switch contacts.

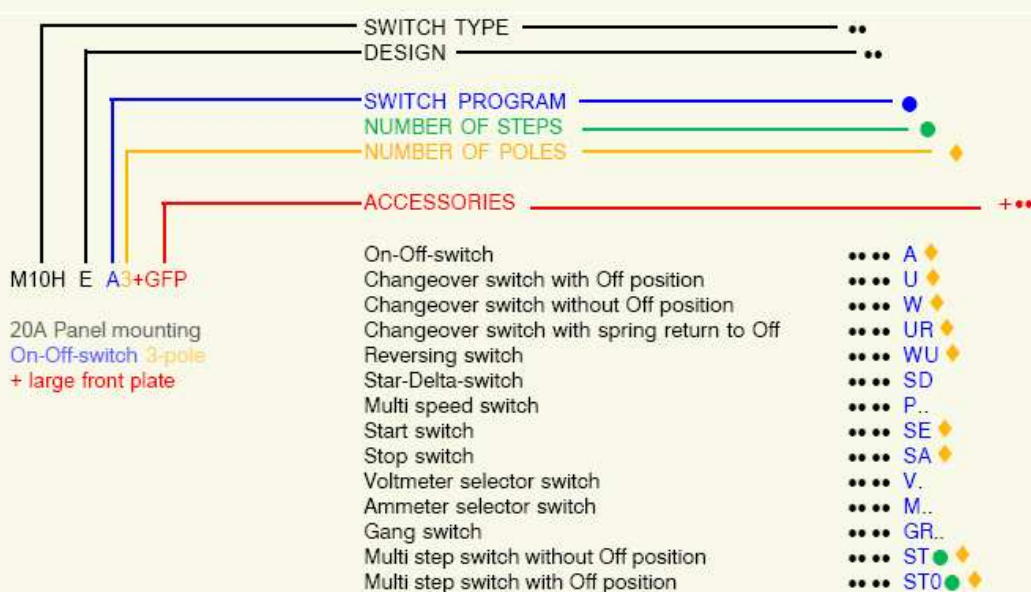
With customer built main terminal protection, load switch L.. can also be used as main switch.





Designs Base mounting IP40	DIN-rail mounting IP40	Modular IP40	Plastic enclosed ..P.. IP40 ..PF.. IP65	horizontal, IP65	Motor switch enclosed IP65	Terminal box mounting IP65	Cast enclosed ..G.. IP40 ..GF.. IP65
-	-	-	-	-	-	-	-
M10H V ●◆	M10H SM ●◆	M10H SMA ●◆	-	-	M10H PM ●◆	-	-
-	-	-	M10 P(F) ●◆	-	-	M10 KE ●◆	-
M20 V ●◆	M20 SM ●◆	M20 SMA ●◆	-	-	-	-	-
N20 V ●◆	N20 SM ●◆	-	N20 P(F) ●◆	-	N20 PM ●◆	N20 KE ●◆	N20 G(F) ●◆
N33F V ●◆	N33F SM ●◆	-	N33F P(F) ●◆	-	N33F PM ●◆	N33F KE ●◆	-
-	-	-	-	-	-	-	N32 G(F) ●◆
N40 V ●◆	-	-	N40 P(F) ●◆	N40 PLF ●◆	-	-	-
N60 V ●◆	-	-	N60 P(F) ●◆	N60 PLF ●◆	-	-	-
N80 V ●◆	-	-	N80 P(F) ●◆	N80 PLF ●◆	-	-	-
L100 V ●◆	-	-	-	-	-	-	-
L160 V ●◆	-	-	-	-	-	-	-
N100 V ●◆	-	-	N100 P(F) ●◆	-	-	-	-
N200 V ●◆	-	-	N200 P(F) ●◆	-	-	-	-
L400 V ●◆	-	-	-	-	-	-	-
L600 V ●◆	-	-	-	-	-	-	-
L800 V ●◆	-	-	-	-	-	-	-
L1200 V ●◆	-	-	-	-	-	-	-

Ordering





Type	Ratings			Protection degree from front in mounted position				Main Switch Emergency Stop		
	Rated current Therm. I _n open A	AC21 A	bei U _n V	Motor AC3 3~400V kW	AC23 3~400V A	kW	Plate Switch disconnecter mm	Panel mounting IP65	Single hole mount. Ø22.5mm IP65	Base mounting with door coupling adjust. installation depth LTS... IP65 LT... IP40
LTS20	20	20	690	4	12	5,5	48 ^D			
LTS25	25	25	690	5,5	16	7,5	48 ^D	LTS25 EHN1 .. LTS25 EHN4 ..	LTS25 ZHN1 ..	LTS25 VZVHN4 .. LTS25 VHN4 ..
LTS32	32	32	690	7,5	23	11	48 ^D	LTS32 EHN1 .. LTS32 EHN4 ..	LTS32 ZHN1 ..	LTS32 VZVHN4 .. LTS32 VHN4 ..
LTS40	40	40	690	11	30	15	48 ^D	LTS40 EHN1 .. LTS40 EHN4 ..	LTS40 ZHN1 ..	LTS40 VZVHN4 .. LTS40 VHN4 ..
LTS63	63	63	690	15	45	22	48 ^D	LTS63 EHN1 .. LTS63 EHN4 ..	-	LTS63 VZVHN4 .. LTS63 VHN4 ..
LTS80	80	80	690	18,5	45	22	48 ^D	LTS80 EHN1 .. LTS80 EHN4 ..	-	LTS80 VZVHN4 .. LTS80 VHN4 ..
LT80	80	80	690	22	60	30	64 ^D	LT80 EHN34 ..	-	LT80 VHN34 ..
LT100	100	100	690	30	72	37	64 ^D	LT100 EHN34 ..	-	LT100 VHN34 ..
LT125	125	125	690	37	85	45	88 ^D	LT125 EHN34 ..	-	LT125 VHN34 ..
LT160	160	160	690	45	110	55	88 ^D	LT160 EHN34 ..	-	LT160 VHN34 ..

Switch disconnecter LT.. 20 - 160A

Switch disconnectors are to be used as an ON-OFF-switch where a high breaking capacity with high contact pressure and in fact better short circuit behavior is necessary. These applications are:

Main switches according to IEC/EN 60204 respectively VDE0113 with interlocking device, terminal protection and restrictive contacts.

Switch disconnectors according to IEC/EN 60947-3 and VDE 0660 part 107 with break distance for 690V.

Motor switches 3-pole or 4-pole; according to IEC/EN 60947-3 respectively VDE 0660 part 107, motor switches series LT are dimensioned for switching high rated current AC3 and AC23A.



Main switches and Main switches with Emergency-Stop function

According to standards IEC/EN60204 or VDE0113, all electrical equipment of industrial machines must be equipped with a main switch. This must permit disconnection of all the electrical equipment during cleaning, maintenance and repair work, and other extended periods when it is stationary.

In case of two or more main switches, an interlock system must be used. It is recommended to use a multiple-pole main switch (cam switch).

Main switches have to correspond to:

- Switch disconnecter according to IEC/EN 60947-3 and VDE 0660 part 107 for utilization category AC23-B or DC-23B.
- Disconnectors are selected according to thermal rated current. They must possess a contact that ensures load switching via the contactors (see switching program A3-10). This contact must have a sufficient AC15 switching capacity.
- The interruption capacity of the switch must equal or exceed the locked rotor current of the largest motor plus the total current of all other electrical equipment in the circuit.

Requirements:

Interruption of the electrical equipment, with only on and off positions clearly marked with O and I.

It must be lockable in the off setting.

The line terminals of the main switch must be protected according to utilization category IP2X.

Colour of handle black or grey.

Main switches with Emergency-Off function are additionally supplied with red handles and contrasting yellow escutcheon plates.