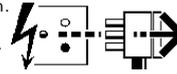


These instructions are included for reference purposes and should be read in conjunction with the enclosed transformer installation instructions. It is recommended that these instructions are passed on to the user after the installation is complete in order to acquaint them with the limitations of use.

Disconnect from mains supply before replacing the fuse or the lamp.
Vor dem Einsetzen der Sicherung oder der Lampe Spannungsfreiheit herstellen.
Débrancher le secteur avant de remplacer le fusible ou l'ampoule.
Desconectar del suministro de la red, antes de realizar la sustitución del fusible o de la lámpara.
Voor het vervangen van lamp of zekering, eerst netspanning uitschakelen.
Koppla bort spänningen före byte av en säkring eller en lampa.



Switch Off
Abschalten
Débrancher
Desconectar
Uitschakelen
Stäng av

These transformers, which conform with EN60 742, are suitable for continuous use in interior situations where the ambient temperature does not exceed 30°C. Type MTC 30T is designed for use with Concord 12V 25Amp track systems, all other types are designed for use in conjunction with Concord surface and recessed mounted luminaires.

The combination of lamps which can be used with these transformers is shown in Table 1. It should be noted that while the table indicates only combinations of single lamp types, various lamp types can be combined provided the load does not exceed the full load/maximum rating of the transformers and due allowance is made for failed lamps before the half load/maximum rating of the transformer is reached.

With the exception of the track type transformer MYC 30T, Table 1 represents the ideal and recommended condition of only one luminaire connected to each pair of output terminals and in these circumstances, the output fuses located within the transformer case provide satisfactory circuit protection. However, if more than one luminaire is connected to each pair of output terminals, appropriate in line fusing precautions should be taken between the transformer output terminals and the luminaires.

It should be noted that if the transformers are subjected to less than half load/maximum rating, the output voltage will be unacceptably high and this will result in significantly shorter lamp life. Conversely, if the transformer is subjected to more than full load/maximum rating, the output voltage will be unacceptably low and this will result in dimmer lamps and the transformer will be overloaded, possibly activating the thermal cut-out fitted to the transformer. It is therefore important to ensure that the transformer operates within its full and half load limits and on multi lamp circuits (i.e. one transformer supplying more than one luminaire), and that failed lamps are replaced promptly.

These transformers and their associated mains electric supply and extra low voltage circuits must conform with the IEE Wiring Regulations and relevant legislation, in consequence, it is recommended that the installation should be carried out by a suitably qualified person.

It should be particularly noted that extra low voltage circuits, compared to mains voltage installations, require that careful consideration is given to the relatively high currents and more significant voltage drops involved, particularly in relation to the selection of cable sizes, cable lengths, fuses, termination sizes and effective terminations/connections. If any of these aspects are ignored either poor lamp performance or overheating of the cables and terminations can result with an accompanying fire hazard and risk of life.

To compensate for the voltage drops, associated with the output circuits from the transformer, alternative neutral (N) terminations are provided within the transformer case for the mains electrical supply neutral (N) conductor. A connection to the neutral (N) terminal marked 'A1' will provide the rated output voltage whereas a connection to the neutral (N) terminal marked 'A2' will provide an output voltage 0.volts higher.

The selection of cables, termination/connectors and transformer neutral (N) input terminals should be based on achieving a voltage at the lampholder terminals in line with the lamp manufacturer's recommendations. To suit all manufacturers, this should ideally be 11.7-11.8 volts. Note that overvolting by 0.5 volts can reduce lamp life by 50% and undervolting by a similar amount significantly reduces the lamp efficiency and colour rendering and furthermore, may inhibit the halogen cycle.

It is essential that any track system, luminaire, conduit or trunking associated with the transformer extra low voltage output circuit is NOT earthed.

Extra low voltage wiring must be run separately from any mains voltage wiring unless the insulation is equivalent to mains voltage wiring and the wiring is contained within an insulated conduit or trunking.

The switch controlling the mains electrical supply to the transformer/luminaires must be rated such that it will withstand the current surge on switch-on which is many times the running current.

Fuses supplied with the transformer are of the antisurge type and should not be replaced with any other type.

When more than one lamp is fed by a single transformer, the circuit for each lamp should be independent and of similar length (i.e. radially connected). Parallel circuits result in different voltages at each lamp, as is the case with track systems, and more widespread use of larger cables. In consequence, such circuits should be avoided and of necessity only accepted for track systems.

Ideally these transformers should be located in a position which does not induce overheating and provides easy access to the input and output fuses. Any supporting media must be capable of withstanding their significant weight.

Suitable junction boxes should be used to connect the leads from the luminaire to the output cables from the transformers.

Suitable for use indoors

Geeignet für Innenanwendung

Pour un usage interne

Adecuada para uso en interiores

Geschikt voor gebruik binnen

Lämplig för inomhusbruk



Replace any cracked protective shield.

Dieses symbol bedeutet, dass defekte Schutzgläser sofort ersetzt werden müssen.

Ce symbol indique que vous devez remplacer tout verre de protection fêlé.

Este símbolo indica que hay que reemplazar filtros en caso de rotura o desperfectos.

Dette symbolet indikerer at alle ødelagte (sprukne) sikkerhetsglass må skiftes.

Valaisinta ei saa käyttää ilman suojalasiasa vioitunut suojalasi on vaihdettava uuteen ennen valaisimen käyttöön ottoa.

< Millimetres >



This Electrical Product
MUST be recycled.



04.08

Concord

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Table 1

Type	Total VA Rating	No. of Outputs	Output VA Rating	Lamp Rating/Combination					
				20W	25W	35W	50W	75W	100W
MTC060	60	3	20	3	-	-	-	-	-
MTC100	100	2	50	-	-	-	2	-	1
MTC105	100	5	20	5	-	-	-	-	-
MTC150	150	2	75	-	-	-	-	2	-
MTC155	155	3	50	-	-	3	3	-	-
MTC200	200	4	50	-	-	4	4	-	-
MTC225	225	3	75	-	-	-	-	3	-
MTC250	250	5	50	-	-	5	5	-	-
MTC300	300	3	100	-	-	-	-	3	3
MTC30T	300	1	300	15	12	8	6	4	3
MTC400	400	4	100	-	-	-	-	8	4
MTC500	500	5	100	-	-	-	10	5	5

Table 2

Transformer Output Terminal Rating	Output Current	Cable Size (mm) / Cable Length (M)					
		1	1.5	2.5	4	6	10
20W	1.76A	3.56	3.35	8.80	13.61	21.08	35.64
50W	4.17A	2.85	4.29	7.05	10.90	16.89	28.55
75W	6.25A	1.91	2.86	4.71	7.28	11.27	19.05
100W	8.33A	1.43	2.15	3.54	5.46	8.46	14.29