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Cinematography — Motion-picture camera cartridge, 8 mm Type S Model II — Cartridge fit and take-up core drive — Dimensions and specifications

Cinématographie — Chargeurs, modèle II, pour caméras 8 mm type S — Ajustage du chargeur et entraînement du noyau récepteur — Dimensions et spécifications

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FOREWORD

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International Standard ISO 3641 was drawn up by Technical Committee ISO/TC 36, *Cinematography*, and circulated to the Member Bodies in February 1975.

It has been approved by the Member Bodies of the following countries :

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Cinematography — Motion-picture camera cartridge, 8 mm Type S Model II — Cartridge fit and take-up core drive — Dimensions and specifications

1 SCOPE AND FIELD OF APPLICATION

This International Standard specifies the external dimensions of the 8 mm Type S film camera cartridge, Model II, cartridge-camera fit specifications, and core dimensions.

2 REFERENCES

ISO 1700, *Cinematography — 8 mm Type S motion-picture raw stock film — Cutting and perforating dimensions*.

ISO 1787, *Cinematography — Camera usage of 8 mm motion-picture film perforated Type S*.

ISO 2863, *Cinematography — Motion-picture camera cartridge, 8 mm Type S Model II — Run length of film — Dimensions and specifications*.

ISO 3025, *Cinematography — Motion-picture camera cartridge, 8 mm Type S Model II — Film load position*.

ISO 3646, *Cinematography — Motion-picture camera cartridge, 8 mm Type S Model II — Slots and projection for film speed, cartridge hole and projection for film identification and colour balancing filter — Dimensions and positions*.

3 DIMENSIONS AND CHARACTERISTICS

3.1 The dimensions shall be as given in the figures and tables and apply to an assembled cartridge containing a film load.

3.2 Datum planes used for dimensioning are coincident with the surfaces that engage mating camera parts when the cartridge is properly aligned in the camera. The datum planes are mutually perpendicular.

3.2.1 Datum plane Z (primary) is established from the extremities of the three seating bosses (lugs) 1, 2 and 3 (dimension L).

3.2.2 Datum plane Y (secondary) is established coincident with the axes of the cartridge take-up core opening, dimension W_2 , and the supply core opening, dimension W_3 .

3.2.3 Datum plane X (tertiary) is also established coincident with the axis of the cartridge take-up core opening, dimension W_2 .

3.3 The bosses (lugs) L_1 , L_2 , L_3 , which establish datum plane Z and engage mating surfaces to laterally locate the cartridge in the camera shall be nominally flat.

3.4 The centre line for the supply shaft, dimension F , also applies to the right-hand view.

3.5 If tape is used to seal the cartridge, it should fall within the values established by dimensions A_1 , A_2 , C and D .

3.6 The coaxiality of the core post, dimension f , and the core drive openings, dimensions k and j (figure 2), with the openings in the cartridge, dimensions W_2 and J (figure 1), should be within 0,4 mm (0.016 in).

3.7 Regardless of the method of constructing the light trap, a clearance of 1,0 to 1,7 mm (0.04 to 0.07 in) is required during rotation.

3.8 Dimensions a , b and d (figure 2) are measured as the cartridge is supplied by the manufacturer.

NOTE — This requirement applies whether or not a spring is used to load the core towards datum plane Z.