



ČSN EN 61158-6-12 ed. 3 - Průmyslové komunikační sítě - Specifikace sběrnice pole - Část 6-12: Specifikace protokolu aplikační vrstvy - Prvky typu 12

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Detailní popis

ČSN EN 61158-6-12 ed. 3 ČSN EN 61158-6-12 ed. 3 The Fieldbus Application Layer (FAL) provides user programs with a means to access the fieldbus communication environment. In this respect, the FAL can be viewed as a "window between corresponding application programs." This standard provides common elements for basic time-critical and non-time-critical messaging communications between application programs in an automation environment and material specific to fieldbus. The term "time-critical" is used to represent the presence of a time-window, within which one or more specified actions are required to be completed with some defined level of certainty. Failure to complete specified actions within the time window risks failure of the applications requesting the actions, with attendant risk to equipment, plant and possibly human life. This standard specifies interactions between remote applications and defines the externally visible behavior provided by the fieldbus application layer in terms of the formal abstract syntax defining the application layer protocol data units conveyed between communicating application entities; the transfer syntax defining encoding rules that are applied to the application layer protocol data units; the application context state machine defining the application service behavior visible between communicating application entities; the application relationship state machines defining the communication behavior visible between

communicating application entities. The purpose of this standard is to define the protocol provided to define the wire-representation of the service primitives defined in IEC 61158-5, and define the externally visible behavior associated with their transfer.