

PUSHBUTTON IN AS-I ENCLOSURE, METALLIC DESIGN, CUSTOMER-SPEC. F=WITHOUT KEY-OP. SWITCH, 2NO, 1NC E=ILLUMINATED PUSHBUTTON, GREEN, 1NO D=BLANKING PLUG, BLACK C=ILLUMINATED PUSHBUTTON, YELLOW, 1NO B=ILLUMINATED PUSHBUTTON, WHITE, 1NO A=EMERGENCY STOP PULL-TO-RELEASE, 2NC LABELS GER/ENG PACKED SEPARATELY; SOLVENT-RESISTANT

Enclosure:	
Design of the housing	AS-Interface enclosure with standard equipment
Shape of the enclosure front	rectangular
Material of the enclosure	metal
Number of command points	6
Product component	
• protective collar	No
Color	
• of top part of the enclosure	grey
Delivery state	
• pre-wired on strip terminal	Yes
Mounting type of the enclosure	Vertical
Actuator:	
Design of the operating mechanism	Emergency stop mushroom pushbutton / illuminated pushbutton / dummy plug / illuminated pushbutton / without command device
Product extension optional Light source	Yes
Color	
• of the actuating element	A = red / B = white / C = yellow / E = green
Material of the actuating element	plastic
Type of unlocking device	pull-to-unlatch mechanism
Front ring:	
Product component front ring	Yes
Material of the front ring	metal
Color of the front ring	silver
Holder:	
Material of the holder	Metal
Contact block/ lampholder:	
Mounting type	integrated LED
Number of lampholders	3
Number of switching elements	8

General technical data:

Product function • positive opening • EMERGENCY OFF function • EMERGENCY STOP function	Yes Yes Yes
Product component • Light source	Yes
Type of voltage • of the operating voltage	DC
Protection class IP	IP67
Vibration resistance • acc. to IEC 60068-2-6	20 ... 200 Hz: 5g
Equipment marking • acc. to DIN 40719 extended according to IEC 204-2 acc. to IEC 750 • acc. to DIN EN 61346-2 • acc. to DIN EN 81346-2	S S S
Operating voltage • at DC — rated value	26.5 ... 31.5 V
Operating voltage 1 • at DC rated value	30 V

Supply voltage:

Type of voltage of the supply voltage • of the light source	AC/DC
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Auxiliary circuit:

Number of NC contacts • for auxiliary contacts	3
Number of NO contacts • for auxiliary contacts	5
Number of CO contacts • for auxiliary contacts	0

Connections/ Terminals:

Type of electrical connection on enclosure	Cable gland, top
Tightening torque of the screws in the bracket	1.4 ... 1.6 N·m

Safety related data:

B10 value • with high demand rate acc. to SN 31920	100 000
Proportion of dangerous failures • with low demand rate acc. to SN 31920 • with high demand rate acc. to SN 31920	20 % 20 %

Failure rate [FIT]	
• with low demand rate acc. to SN 31920	100 FIT
T1 value for proof test interval or service life acc. to IEC 61508	20 y

Ambient conditions:

Ambient temperature	
• during operation	-25 ... +70 °C
• during storage	-40 ... +80 °C

Installation/ mounting/ dimensions:

Mounting type	
• of contact blocks, socket, and accessories	Floor mounting
• of AS-i slaves	Floor mounting
Height	280 mm
Width	85 mm
Depth	65 mm
Shape of the installation opening	round
Mounting diameter	22 mm

Measuring circuit:

Product function	miscellaneous
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Accessories:

Number of labels	6
Color of the label	Black
Number of backing plates	0

Certificates/approvals

General Product Approval	Functional Safety/Safety of Machinery	other
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Further information

Information- and Downloadcenter (Catalogs, Brochures,...)

<http://www.siemens.com/industrial-controls/catalogs>

Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3SF5816-2DB20>

Cax online generator

<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3SF5816-2DB20>

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

<https://support.industry.siemens.com/cs/ww/en/ps/3SF5816-2DB20>

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3SF5816-2DB20&lang=en

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